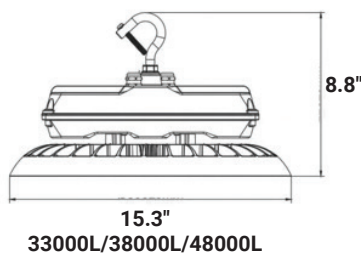
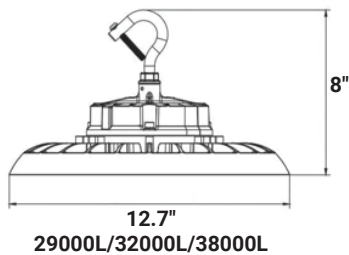
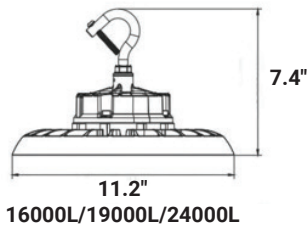




**EASY 3 COLORS
SELECTOR**
3500K • 4000K • 5000K

DIMENSIONS



16000L/19000L/24000L

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
24000L	24010	160W
19000L	18940	126W
16000L	15980	106W

Based on 4000K, 85+ CRI. Actual wattage may vary +/- 5%

29000L/32000L/38000L

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
38000L	38005	253W
32000L	31998	213W
29000L	29010	193W

Based on 4000K, 85+ CRI. Actual wattage may vary +/- 5%

33000L/38000L/48000L

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
48000L	48002	320W
38000L	37994	253W
33000L	32996	220W

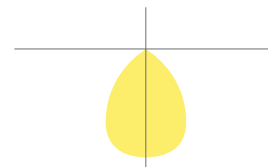
Based on 4000K, 85+ CRI. Actual wattage may vary +/- 5%

FEATURES

The Oracle ORHB5 High Bay is a round high bay designed to withstand high temperatures, wet environments, airborne contaminants, and electrical shock. Selectable High lumen output and circular form factor leave no dark corners. Built-in hanging hook included for easy pendant installation. Applications include warehouses, commercial facilities, retail, gymnasiums, campuses and garages with high ceiling.

LUMENS	16000L/19000L/24000L 29000L/32000L/38000L 33000L/38000L/48000L
CCT	35K/40K/50K
CRI	85+ Standard
COLOR QUALITY	3-Step MacAdam Ellipse
MOUNTING	Suspended, yoke mount, pendant mount
DISTRIBUTION	Wide Distribution (WD)
DIMMING	1-10V Flicker Free 10% Dimming Standard (DIM10)
EMERGENCY	EMG-LED-ORHB1-40-BK EMG-LED-ORHB1-40-WH EMG-LED-ORHB1-RC REMOTE CONTROL FOR ORHB1-EMERGENCY, CAN REMOTE TEST FOR EMERGENCY FUNCTION
WORKING TEMPERATURE	-30°C (-22°F) to 50°C (122°F)
LIFETIME	L70 at 50,000 hours
PHOTOMETRIC TESTS	In accordance with IES LM79-08, LM80 and TM-30, TM-21

WD-90°
Candlepower Distribution Curve



PERFORMANCE

Efficacy up to 160lm/W, designed to replace 400W metal halide (MH) bulbs while consuming 200W. Increase energy savings with optional bilevel motion sensor.

OPTICS

A .16" thick clear standard polycarbonate lens protects LEDs. Reflector and lens options provide maximum versatility and uniformity. Conical, flat, aluminum, prismatic or acrylic clear/frosted drop lenses can be ordered as accessories to offer enhanced aesthetics, minimize glare at lower mounting heights when paired with acrylic reflectors.

CONSTRUCTION

One-piece, sealed die-cast aluminum housing requires no additional parts. Heat sink included in casting, preventing high bay from overheating during use. Wet location rating serves both indoor and outdoor applications. Available in a black polyester powder post-paint finish.

INSTALLATION

Included: Hook mount, safety cable, 6-ft. power cord, and 0-10V dimming cord. Conduit pendant also possible with optional accessory: pendant/stem mount bracket with 3/4" hub and j-box. Surge Protection Level: Built-in 6 kV surge protection; class 2 product (shock resistant)

LUMEN SELECT OPTION

Easily access field-adjustable 3-lumen Selector for switch without lowering the luminaire from the ceiling.

OPTIONS & ACCESSORIES

Available to order separately with:

- Aluminum Reflector and Acrylic Clear Reflector (ARC) options.
- Conical Bottom Lens options (only compatible with ARC options).
- Various PIR, photo, and microwave motion sensor options, and a high bay sensor compatible remote control.
- 2 wire guard options, and a pendant/stem mounting bracket in white or black finishes.
- Available with a 40W emergency battery back-up option (EMG-LEDORHB1-40) in either black or white finishes. Remote control compatible. Remote control (EMG-LED-ORHB1-RC) can remote test for emergency functions. One remote can be used with multiple emergency drivers.

For more information see ordering chart or consult factory

ELECTRICAL

Powered by high-quality constant-current power LED drivers which are rated for 50 to 60Hz at 120/277V input. Available in 480V., produce less than 20% THD, and have a power factor of .90 to 1.00.

DIMMING & DRIVER INFORMATION

DIM10 - Flicker Free 10% Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120, 277V.

RATINGS

IP65-rated; completely sealed to protect against water and dirt.
IK08 Impact Rating
DLC-listed.

WARRANTY

5-year warranty for parts and components (labor not included).

Example: **ORHB5-LED-16000L/19000L/24000L-DIM10-120-347V-35K/40K/50K-WD-85-BK**

ORHB5-LED								
SERIES	LUMENS	DIMMING	VOLTAGE	CCT	OPTICS	CRI	FINISH	EMERGENCY
ORHB5-LED	16000 /19000 /24000 29000 /32000 /38000 33000 /38000 /48000	DIM10 - 0-10V Dimming	120-347V 480V	35K/40K/50K	WD	85	BK - Black WH - White	EMG-LED-ORHB1-40-BK EMG-LED-ORHB1-40-WH EMG-LED-ORHB1-RC
REFLECTOR OPTIONS			LENS OPTIONS		OTHER OPTIONS			
Aluminum Reflector ORHB5-14/17/21-26/29/33-ALR (16000 /19000 /24000 29000 /32000 /38000)			Conical Bottom* ORHB5-14/17/21-26/29/33-ORHB6-15/18/22-CB (16000 /19000 /24000 29000 /32000 /38000)		MS-PIR-BI-SR-101 - Integrated 0-10V continuous dimming PIR motion sensor (remote control is sold separately)			
ORHB5-33/38/48-ALR 33000 /38000 /48000			ORHB5-30/35/42-ORHB6-28/30/34-CB 33000 /38000 /48000		MS-RC-G1 - Remote Control Compatible with Highbay Sensor			
Acrylic Clear Reflector ORHB5-14/17/21-26/29/33-ARC (16000 /19000 /24000 29000 /32000 /38000)					ORHB5-33/38/48-WG - Wire Guard for ORHB5-3200/38000/48000			
ORHB5-33/38/48-ARC 33000 /38000 /48000					ORHB5-16/19/24-29/32/38-WG - Wire Guard for ORHB5-1600/19000/24000 & 29000/32000/38000			
					ORHB5-UNV-BRK-BK - (Black) Pendant/Stem Mount Bracket with 3/4" HUB			
					ORHB5-UNV-BRK-WH - (White) Pendant/Stem Mount Bracket with 3/4" HUB			
					ORHB1-IP67-JBOX - IP Rated JBOX			

*REMOTE CONTROL FOR ORHB1-EMERGENCY, CAN REMOTE TEST FOR EMERGENCY FUNCTION

**L(X) mounting height, (XX) finish options black and white. Please refer to Legrand FSP-311B, FSP-321B specification sheets for more information.

REFLECTORS:



ORHB5-14/17/21-26/29/33-ALR
ORHB5-33/38/48-ALR
Aluminum Reflector



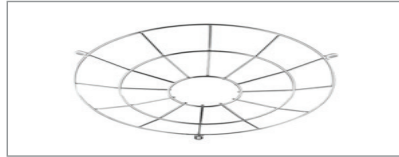
ORHB5-14/17/21-26/29/33-ACR
ORHB5-33/38/48-ACR
Acrylic Clear Reflector

LENS ACCESSORIES:



ORHB5-14/17/21-26/29/33-ORHB6-15/18/22-CB
ORHB5-30/35/42-ORHB6-28/30/34-CB
Conical Bottom

WIRE GUARD



ORHB5-16/19/24-29/32/38-WG
ORHB5-33/38/48-WG

ORHB5-LED-16000L-19000L-24000L-DIM10-120-347V-35K-40K-50K-WD-BK(16000L)

TEST NO.: EL06162513

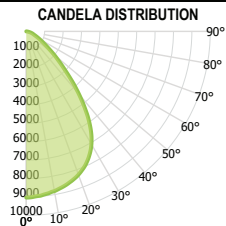
INPUT WATTS: 96.3

LUMENS: 16586

EFFICACY: 172

BEAM ANGLE: 83

SPACING CRITERIA: 1.17



CANDELA TABLE

	0°	90°
0°	9031	9031
10°	8814	9025
20°	8288	8798
30°	7079	8003
40°	4454	5218
50°	1974	2406
60°	820	1069
70°	377	478
80°	104	121
90°	1	1

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	48659	48659
45.00°	22779	26969
55.00°	11702	15345
65.00°	6772	8889
75.00°	5014	6037
85.00°	1726	1913

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	861
10° - 20°	2504
20° - 30°	3860
30° - 40°	4177
40° - 50°	2684
50° - 60°	1407
60° - 70°	674
70° - 80°	294
80° - 90°	41

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	3364	20%
0° - 30°	7224	44%
0° - 40°	11402	69%
0° - 60°	15494	93%
0° - 80°	16461	99%
0° - 90°	16502	99%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 m	250.9 lx	10.6 m	10.5 m
8.0 m	141.1 lx	14.1 m	14.0 m
10.0 m	90.3 lx	17.7 m	17.5 m
12.0 m	62.7 lx	21.2 m	21.0 m
14.0 m	46.1 lx	24.7 m	24.5 m
16.0 m	35.3 lx	28.3 m	28.0 m
18.0 m	27.9 lx	31.8 m	31.5 m
20.0 m	22.6 lx	35.3 m	35.0 m

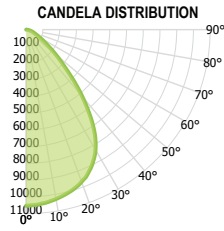
INDOOR COEFFICIENTS OF UTILIZATION

pf pc pw	20%																		0%	
	80%						70%						30%						10%	0%
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99		
1	112	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89		
2	104	98	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79		
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70		
4	90	80	73	68	88	79	72	67	77	71	66	74	70	66	72	68	65	63		
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56		
6	78	67	60	54	77	66	59	54	65	58	54	63	57	53	61	57	53	51		
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46		
8	69	57	50	45	67	56	49	44	55	49	44	54	48	44	53	48	44	42		
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38		
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35		

ORHB5-LED-16000L-19000L-24000L-DIM10-120-347V-35K-40K-50K-WD-BK(19000L)

TEST NO.: **EL06162513**

INPUT WATTS: **114.5** LUMENS: **19379** EFFICACY: **169** BEAM ANGLE: **83** SPACING CRITERIA: **1.17**



CANDELA TABLE		
	0°	90°
0°	10529	10529
10°	10281	10534
20°	9681	10283
30°	8289	9371
40°	5212	6100
50°	2293	2816
60°	949	1260
70°	439	560
80°	121	140
90°	1	1

LUMINANCE (cd/sq.m)		
	0.00°	90.00°
0.00°	56730	56730
45.00°	26614	31550
55.00°	13621	17914
65.00°	7882	10417
75.00°	5829	7041
85.00°	1988	2217

LUMENS PER ZONE	
ZONE	LUMENS
0° - 10°	1004
10° - 20°	2920
20° - 30°	4504
30° - 40°	4887
40° - 50°	3142
50° - 60°	1646
60° - 70°	787
70° - 80°	343
80° - 90°	48

ZONAL LUMEN SUMMARY		
ZONE	UMENS	% LUMINAIRE
0° - 20°	3924	20%
0° - 30°	8428	43%
0° - 40°	13315	69%
0° - 60°	18103	93%
0° - 80°	19233	99%
0° - 90°	19280	99%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 m	292.5 lx	10.6 m	10.5 m
8.0 m	164.5 lx	14.2 m	14.0 m
10.0 m	105.3 lx	17.7 m	17.5 m
12.0 m	73.1 lx	21.3 m	21.0 m
14.0 m	53.7 lx	24.8 m	24.5 m
16.0 m	41.1 lx	28.4 m	28.1 m
18.0 m	32.5 lx	31.9 m	31.6 m
20.0 m	26.3 lx	35.4 m	35.1 m

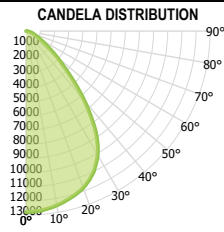
INDOOR COEFFICIENTS OF UTILIZATION

		20%																0%
		80%				70%				50%				30%				0%
pc	pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99
1	112	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	98	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	74	70	66	72	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	78	67	60	54	77	66	59	54	65	58	54	63	57	53	61	56	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46
8	69	57	50	45	67	56	49	44	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

ORHB5-LED-16000L-19000L-24000L-DIM10-120-347V-35K-40K-50K-WD-BK(24000L)

TEST NO.: **EL06162513**

INPUT WATTS: **144.2** LUMENS: **23602** EFFICACY: **164** BEAM ANGLE: **83** SPACING CRITERIA: **1.17**



CANDELA TABLE		
	0°	90°
0°	12791	12791
10°	12493	12812
20°	11778	12494
30°	10099	11399
40°	6367	7453
50°	2803	3437
60°	1158	1530
70°	533	682
80°	146	170
90°	3	1

LUMINANCE (cd/sq.m)		
	0.00°	90.00°
0.00°	68917	68917
45.00°	32572	38844
55.00°	16644	21890
65.00°	9604	12695
75.00°	7047	8586
85.00°	2404	2684

LUMENS PER ZONE	
ZONE	LUMENS
0° - 10°	1219
10° - 20°	3548
20° - 30°	5477
30° - 40°	5962
40° - 50°	3838
50° - 60°	2005
60° - 70°	959
70° - 80°	416
80° - 90°	58

ZONAL LUMEN SUMMARY		
ZONE	UMENS	% LUMINAIRE
0° - 20°	4767	20%
0° - 30°	10245	43%
0° - 40°	16206	69%
0° - 60°	22050	93%
0° - 80°	23424	99%
0° - 90°	23482	99%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 m	355.3 lx	10.7 m	10.6 m
8.0 m	199.9 lx	14.2 m	14.1 m
10.0 m	127.9 lx	17.8 m	17.6 m
12.0 m	88.8 lx	21.3 m	21.1 m
14.0 m	65.3 lx	24.9 m	24.6 m
16.0 m	50.0 lx	28.4 m	28.1 m
18.0 m	39.5 lx	32.0 m	31.7 m
20.0 m	32.0 lx	35.5 m	35.2 m

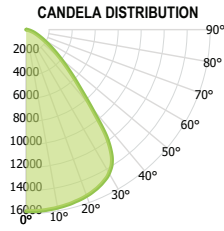
INDOOR COEFFICIENTS OF UTILIZATION

		20%																0%
		80%				70%				50%				30%				0%
pc	pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99
1	112	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	98	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	66	72	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	61	56	53	51
7	73	62	54	49	72	61	54	49	59	53	48	58	52	48	57	52	48	46
8	69	57	50	45	67	56	49	44	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

ORHB5-LED-29000L-32000L-38000L-DIM10-120-347V-35K-40K-50K-WD-BK(29000L)

TEST NO.: **EL06162513**

INPUT WATTS: **168.8** LUMENS: **29545** EFFICACY: **175** BEAM ANGLE: **83** SPACING CRITERIA: **1.31**



CONE OF LIGHT

CANDELA TABLE

	0°	90°
0°	15788	15788
10°	15716	15751
20°	15376	15473
30°	14410	14695
40°	8778	9754
50°	3891	4161
60°	1694	1843
70°	704	754
80°	134	152
90°	3	3

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	195086	195086
45.00°	101080	107689
55.00°	55842	60282
65.00°	31925	34574
75.00°	17355	19562
85.00°	4495	6024

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	1507
10° - 20°	4396
20° - 30°	6880
30° - 40°	7761
40° - 50°	4642
50° - 60°	2388
60° - 70°	1129
70° - 80°	409
80° - 90°	52

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	5903	20%
0° - 30°	12783	43%
0° - 40°	20544	70%
0° - 60°	27574	93%
0° - 80°	29111	99%
0° - 90°	29163	99%

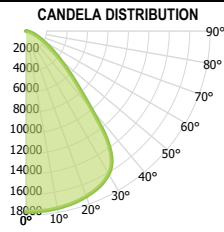
INDOOR COEFFICIENTS OF UTILIZATION

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°	pf pc pw	20%																0%		
					80%				70%				50%				30%				10%		0%
					70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
6.0 m	438.6 lx	10.7 m	10.6 m	0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99	
8.0 m	246.7 lx	14.2 m	14.2 m	1	111	108	105	102	109	106	103	100	101	99	97	97	95	94	94	92	91	89	
10.0 m	157.9 lx	17.8 m	17.7 m	2	104	98	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	
12.0 m	109.6 lx	21.3 m	21.2 m	3	97	89	82	77	94	87	81	76	84	79	75	81	77	74	79	75	72	70	
14.0 m	80.6 lx	24.9 m	24.8 m	4	90	80	73	68	88	79	73	68	77	71	67	74	70	66	72	68	65	63	
16.0 m	61.7 lx	28.4 m	28.3 m	5	84	73	66	61	82	72	65	60	70	64	60	68	63	59	66	62	58	56	
18.0 m	48.7 lx	32.0 m	31.9 m	6	78	67	60	54	77	66	59	54	65	58	54	63	57	53	61	56	53	51	
20.0 m	39.5 lx	35.5 m	35.4 m	7	73	62	54	49	72	61	54	49	60	53	49	58	52	48	57	52	48	46	
				8	69	57	50	45	67	56	49	45	55	49	44	54	48	44	53	48	44	42	
				9	65	53	46	41	63	52	45	41	51	45	41	50	44	40	49	44	40	38	
				10	61	49	42	38	60	49	42	37	48	41	37	47	41	37	46	41	37	35	

ORHB5-LED-29000L-32000L-38000L-DIM10-120-347V-35K-40K-50K-WD-BK(32000L)

TEST NO.: **EL06162513**

INPUT WATTS: **192.3** LUMENS: **33108** EFFICACY: **172** BEAM ANGLE: **83** SPACING CRITERIA: **1.31**



CONE OF LIGHT

CANDELA TABLE

	0°	90°
0°	17668	17668
10°	17586	17627
20°	17209	17316
30°	16144	16453
40°	9888	10946
50°	4369	4669
60°	1904	2075
70°	783	844
80°	150	179
90°	4	3

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	218317	218317
45.00°	113604	120661
55.00°	62740	67710
65.00°	35916	38793
75.00°	19481	21786
85.00°	5062	6701

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	1686
10° - 20°	4919
20° - 30°	7700
30° - 40°	8708
40° - 50°	5212
50° - 60°	2677
60° - 70°	1264
70° - 80°	457
80° - 90°	57

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	6605	20%
0° - 30°	14305	43%
0° - 40°	23012	70%
0° - 60°	30902	93%
0° - 80°	32623	99%
0° - 90°	32681	99%

INDOOR COEFFICIENTS OF UTILIZATION

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°	pf pc	20%																0%	
					70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
6.0 m	490.8 lx	10.7 m	10.6 m	0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
8.0 m	276.1 lx	14.2 m	14.2 m	1	111	108	105	102	109	106	103	100	101	99	97	97	95	94	94	92	91	89
10.0 m	176.7 lx	17.8 m	17.7 m	2	104	98	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
12.0 m	122.7 lx	21.3 m	21.3 m	3	97	89	82	77	94	87	81	76	84	79	75	81	77	74	79	75	72	70
14.0 m	90.1 lx	24.9 m	24.8 m	4	90	80	73	68	88	79	73	68	77	71	67	74	70	66	72	68	65	63
16.0 m	69.0 lx	28.4 m	28.4 m	5	84	73	66	61	82	72	65	60	70	64	60	68	63	59	66	62	58	56
18.0 m	54.5 lx	32.0 m	31.9 m	6	78	67	60	54	77	66	59	54	65	58	54	63	57	53	61	56	53	51
20.0 m	44.2 lx	35.5 m	35.5 m	7	73	62	54	49	72	61	54	49	60	53	49	58	52	48	57	52	48	46
				8	69	57	50	45	67	56	49	45	55	49	44	54	48	44	53	48	44	42
				9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38
				10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

ORHB5-LED-29000L-32000L-38000L-DIM10-120-347V-35K-40K-50K-WD-BK(38000L)

TEST NO.: EL06162513

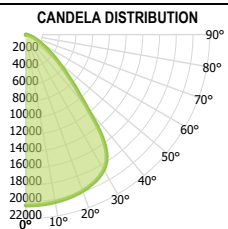
INPUT WATTS: **228.8**

LUMENS: 38355

EFFICACY: 168

BEAM ANGLE: 83

SPACING CRITERIA: 1.31



CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 m	567.1 lx	10.7 m	10.6 m
8.0 m	319.0 lx	14.2 m	14.2 m
10.0 m	204.2 lx	17.8 m	17.7 m
12.0 m	141.8 lx	21.4 m	21.3 m
14.0 m	104.2 lx	24.9 m	24.8 m
16.0 m	79.8 lx	28.5 m	28.4 m
18.0 m	63.0 lx	32.1 m	31.9 m
20.0 m	51.0 lx	35.6 m	35.5 m

CANDELA TABLE

	0°	90°
0°	20416	20416
10°	20319	20361
20°	19887	20006
30°	18668	19012
40°	11462	12760
50°	5072	5414
60°	2209	2396
70°	910	982
80°	173	201
90°	4	4

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	252273	252273
45.00°	132016	139965
55.00°	72689	78559
65.00°	41752	45006
75.00°	22542	25262
85.00°	5804	7779

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	1948
10° - 20°	5685
20° - 30°	8900
30° - 40°	10095
40° - 50°	6062
50° - 60°	3107
60° - 70°	1467
70° - 80°	528
80° - 90°	66

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	7632	20%
0° - 30°	16532	43%
0° - 40°	26628	69%
0° - 60°	35797	93%
0° - 80°	37792	99%
0° - 90°	37859	99%

INDOOR COEFFICIENTS OF UTILIZATION

pf pw	20%																	0%
	80%			70%			50%			30%			10%			0%		
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	111	108	105	102	109	106	103	100	101	99	97	97	95	94	94	92	91	89
2	104	98	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	73	68	77	71	67	74	70	66	72	68	65	63
5	84	73	66	61	82	72	65	60	70	64	60	68	63	59	66	62	58	56
6	78	67	60	54	77	66	59	54	65	58	54	63	57	53	61	56	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	52	48	57	52	48	46
8	69	57	50	45	67	56	49	45	55	49	44	54	48	44	53	47	44	42
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

ORHB5-LED-33000L-38000L-48000L-DIM10-120-347V-35K-40K-50K-WD-BK(33000L)

TEST NO.: EL06162513

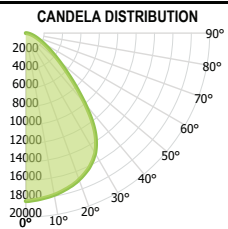
INPUT WATTS: 197.0

LUMENS: 34101

EFFICACY: 173

BEAM ANGLE: 84

SPACING CRITERIA: 1.21



CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 m	507.2 lx	10.7 m	10.7 m
8.0 m	285.3 lx	14.3 m	14.3 m
10.0 m	182.6 lx	17.9 m	17.8 m
12.0 m	126.8 lx	21.5 m	21.4 m
14.0 m	93.2 lx	25.0 m	25.0 m
16.0 m	71.3 lx	28.6 m	28.5 m
18.0 m	56.4 lx	32.2 m	32.1 m
20.0 m	45.6 lx	35.8 m	35.7 m

CANDELA TABLE

	0°	90°
0°	18260	18260
10°	17851	18246
20°	16945	17753
30°	15093	16511
40°	10020	11572
50°	4743	5409
60°	2238	2514
70°	1011	1110
80°	336	361
90°	5	5

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	98384	98384
45.00°	52907	59876
55.00°	30625	34718
65.00°	19208	21542
75.00°	13131	14233
85.00°	8036	8229

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	1738
10° - 20°	5033
20° - 30°	7732
30° - 40°	8522
40° - 50°	5634
50° - 60°	3029
60° - 70°	1514
70° - 80°	647
80° - 90°	134

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	6771	20%
0° - 30°	14503	43%
0° - 40°	23025	68%
0° - 60°	31687	93%
0° - 80°	33848	99%
0° - 90°	33982	100%

INDOOR COEFFICIENTS OF UTILIZATION

pf pc pw	20%																0%	
	80%				70%								50%				0%	
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	105	102	109	106	103	100	101	99	97	97	96	94	94	92	91	89
2	104	97	92	87	101	95	91	86	92	88	84	89	85	83	86	83	81	79
3	96	88	81	76	94	86	80	76	84	78	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	64	59	68	62	58	66	61	58	56
6	78	67	59	54	76	66	59	53	64	58	53	62	57	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	53	48	58	52	48	56	51	47	45
8	68	56	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35

ORHB5-LED-33000L-38000L-48000L-DIM10-120-347V-35K-40K-50K-WD-BK(38000L)

TEST NO.: EL06162513

INPUT WATTS: 230.0

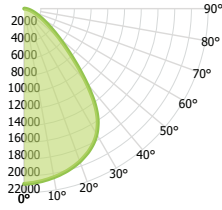
LUMENS: 39185

EFFICACY: 170

BEAM ANGLE: 84

SPACING CRITERIA: 1.21

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	20950	20950
10°	20467	20934
20°	19451	20381
30°	17312	18966
40°	11551	13294
50°	5433	6156
60°	2540	2875
70°	1163	1269
80°	382	408
90°	7	4

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	112877	112877
45.00°	60847	68779
55.00°	34694	39847
65.00°	22140	24552
75.00°	15024	16209
85.00°	9275	9173

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	1994
10° - 20°	5773
20° - 30°	8872
30° - 40°	9795
40° - 50°	6477
50° - 60°	3479
60° - 70°	1747
70° - 80°	751
80° - 90°	155

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	7767	20%
0° - 30°	16639	42%
0° - 40°	26434	67%
0° - 60°	36390	93%
0° - 80°	38889	99%
0° - 90°	39044	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 m	581.9 lx	10.7 m	10.7 m
8.0 m	327.3 lx	14.3 m	14.3 m
10.0 m	209.5 lx	17.9 m	17.9 m
12.0 m	145.5 lx	21.5 m	21.4 m
14.0 m	106.9 lx	25.1 m	25.0 m
16.0 m	81.8 lx	28.6 m	28.6 m
18.0 m	64.7 lx	32.2 m	32.1 m
20.0 m	52.4 lx	35.8 m	35.7 m

INDOOR COEFFICIENTS OF UTILIZATION

pf	20%																		0%	
	80%						70%						50%						30%	
pc	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	100		
1	111	108	105	102	109	106	103	100	101	99	97	97	96	94	94	92	91	89		
2	104	97	92	87	101	95	91	86	92	88	84	89	85	82	86	83	81	79		
3	96	88	81	76	94	86	80	76	84	78	74	81	77	73	78	75	72	70		
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	62	58	66	61	58	56		
6	78	67	59	54	76	66	59	53	64	58	53	62	57	52	61	56	52	50		
7	73	61	54	48	71	60	53	48	59	53	48	58	52	47	56	51	47	45		
8	68	56	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38		
10	60	49	42	37	59	48	41	37	47	41	37	46	40	36	45	40	36	35		

ORHB5-LED-33000L-38000L-48000L-DIM10-120-347V-35K-40K-50K-WD-BK(48000L)

TEST NO.: EL06162513

INPUT WATTS: 286.1

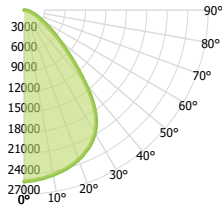
LUMENS: 47148

EFFICACY: 165

BEAM ANGLE: 84

SPACING CRITERIA: 1.21

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	25144	25144
10°	24553	25073
20°	23325	24425
30°	20781	22713
40°	13855	16050
50°	6535	7433
60°	3057	3468
70°	1388	1522
80°	459	498
90°	5	5

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	135474	135474
45.00°	73096	82986
55.00°	42074	48152
65.00°	26587	29627
75.00°	18000	19505
85.00°	10946	11015

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	2394
10° - 20°	6929
20° - 30°	10647
30° - 40°	11794
40° - 50°	7820
50° - 60°	4195
60° - 70°	2117
70° - 80°	911
80° - 90°	185

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	9323	20%
0° - 30°	19970	42%
0° - 40°	31764	67%
0° - 60°	43779	93%
0° - 80°	46807	99%
0° - 90°	46992	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 m	698.4 lx	10.8 m	10.7 m
8.0 m	392.9 lx	14.4 m	14.3 m
10.0 m	251.4 lx	17.9 m	17.9 m
12.0 m	174.6 lx	21.5 m	21.5 m
14.0 m	128.3 lx	25.1 m	25.0 m
16.0 m	98.2 lx	28.7 m	28.6 m
18.0 m	77.6 lx	32.3 m	32.2 m
20.0 m	62.9 lx	35.9 m	35.8 m

INDOOR COEFFICIENTS OF UTILIZATION

pf pc pw	20%																		0%		
	80%						70%						50%						30%		0%
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	111	108	105	102	109	106	103	100	101	99	97	97	96	94	94	92	91	89			
2	104	97	92	87	101	95	91	86	92	88	84	89	85	82	86	83	81	79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	78	75	72	70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56			
6	78	67	59	53	76	66	58	53	64	58	53	62	57	52	61	56	52	50			
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45			
8	68	56	49	44	67	56	49	44	55	48	43	53	47	43	52	47	43	41			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38			
10	60	49	41	37	59	48	41	37	47	41	37	46	40	36	45	40	36	35			