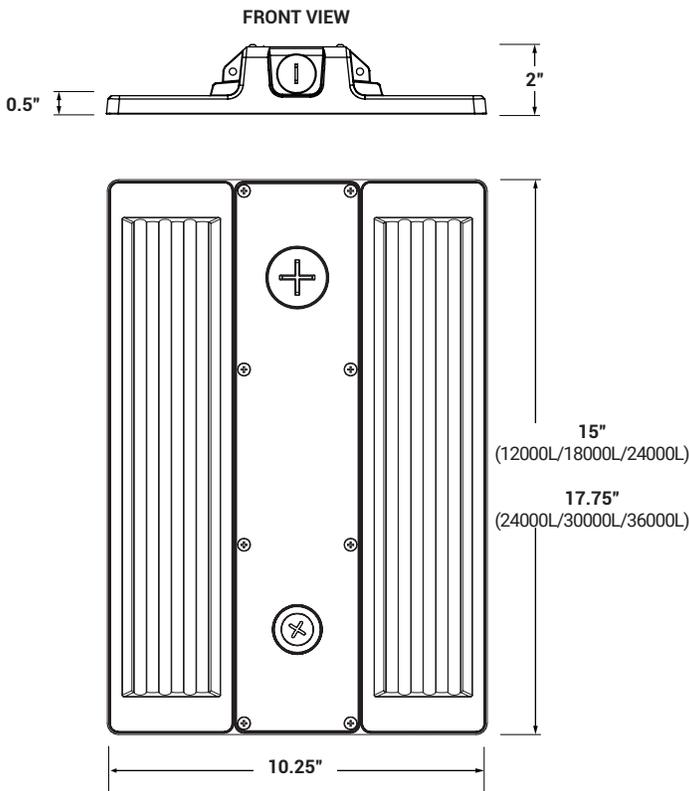




DIMENSIONS



NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
12000L	12767L	80W
18000L	18844L	120W
24000L	24977L	160W
30000L	28400L	200W
36000L	34080L	240W

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

FEATURES

Modern and compact, this LED high bay offers a super versatile and inobtrusive replacement for traditional HID high bays. A selectable beam angle switch allows for the luminaire to adjust between ND (60°), MD (90°), WD (110°) distributions for adaptable light. Two separate multi-lumen packages and multi-CCT allows for in-field adjustments to color temperature and light output for ultimate versatility.

Ideal for harsh environments in processing, agricultural, commercial kitchens, pharmaceutical, and manufacturing facilities, featuring robust, easy-to-clean housing. NSF and IP65 rated for the most complete ingress protection against dust, and construction free from harmful substances, ensuring hygiene and longevity in demanding sanitary applications.

LUMENS	12000L/18000L/24000L & 24000L/30000L/36000L
CCT	40K/50K
CRI	85+ Standard
COLOR QUALITY	3-Step MacAdam Ellipse
MOUNTING	Suspended, Pendant, and Surface Mount
DIMMING	DIM10 - 0-10V Flicker Free 5% Dimming
OPTICS	60° (ND) Narrow/90° (MD) Medium/110° (WD) Wide
FINISH	White
OPERATING TEMP.	-40°C (-40°F) to 60°C (140°F)
EMERGENCY	0-EMG-LED-30W (Remote)
SURGE PROTECTION	Built-in drive L/N-PE: 6kV, L-N: 6kV standard, and 10kV optional
LIFETIME	L80 at 60,000 Hours
PHOTOMETRIC	In accordance with IES LM79-08, LM80 and TM-30, TM-21



OPTICS

Features a clear ribbed plastic lens for glare-reduction and a UGR <22.

Built with ultra efficient, evenly spaced and ultra bright COB LEDs for optimal energy and cost efficiency.

An adjustable distribution switch allows for distributions of Narrow "ND" (60°) Medium "MD" (90°) Wide "WD" (110°) to be selected and set in the field, for versatile application and illumination.

Two selectable color temperatures of 40K/50K enable different warm to cool moods and atmospheres. A selectable lumen package of 12000L/18000L/24000L or 24000L/30000L/36000L allows for customizable intensity, for a variety of uses.

CCT factory set to 50K; lumen factory set to 24000L or 36000L.

CONSTRUCTION

Features a durable, die-cast aluminum housing for optimal heat conduction and lightweight handling. A slim compact design allows for inobtrusive but powerful illumination. An IK08 rated lens ensures impact resistance.

A clipped-in lens design instead of screws makes for a clean, easy to dismantle design. Integrated driver located inside center panel.

Multi-lumen and multi-CCT switches and ND/MD/WD distribution switch located under large screw-in knock-out on luminaire face.

Sensor ready with 3.5MM AUX sensor port located under smaller screw-in knockout on luminaire face. Photocell sensor options can side mounted through one of two side knockouts.

Full rubber gasketing and sealed LEDs, drivers, and connections for NSF Splash/Non-Food Zone certified compliance in processing, industrial, and demanding environments

Post-painted for durability. Available in a white finish. Sensor options can be color matched to fixture finishes.

MAINTENANCE

Fixture may be safely sprayed clean or hosed down to undergo necessary harsh sanitation procedures.

MOUNTING

Suitable for Suspended, Pendant, and Surface mounting come with standard 6ft power cord and 1ft dimming cord.

V-hook and Chain included for Suspended Mounting. Pendant Mounting (PM) and Surface Mounting (SM) kits available to order separately. See order chart for more detail.

OPTIONS & ACCESSORIES

Options below available to order separately:

- NSF Rated Surface Mount Bracket
- NSF Rated Pendant Mounting Kit (no pole included)
- 30W Emergency Battery Back-up options
- Additional 10KV surge protection
- Various PIR occupancy and daylight saving options available with dimming, bluetooth compatibility and more
- Various white and black cord options

See order chart for more detail.

DRIVER & ELECTRICAL INFORMATION

Powered by high-quality constant-current power LED drivers which are rated for 50 to 60Hz at 120/277V input., produce less than 20% THD, and have a power factor of .90 to 1.00. Built-in drive L/N-PE: 6kV, L-N: 6kV standard, and 10KV optional.

DIMMING

DIM10 - Flicker Free 5% Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120 and 277V.

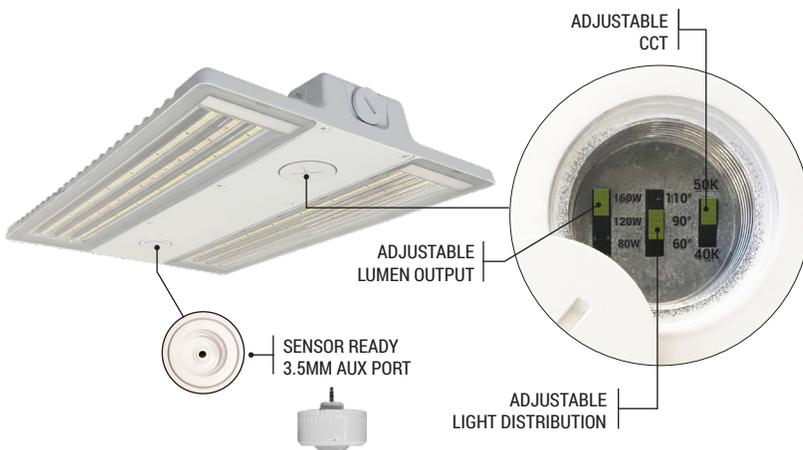
WARRANTY

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

LISTINGS

- UL listed.
- UL Wet location listed.
- DLC 5.1 premium listed.
- IP65 rated for wet location use.
- NSF Splash/Non-Food Zone certified.
- IK08 rating for impact resistance (lens only).

PRODUCT FEATURES



ADJUSTABILITY

60° -110° Light Distribution

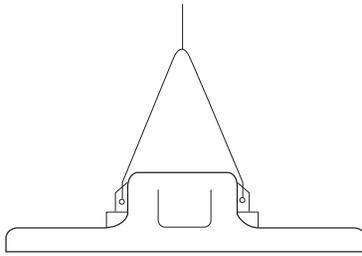


Aisle (60°)

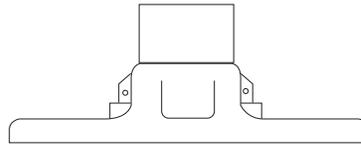
General (90°)

Wide (110°)

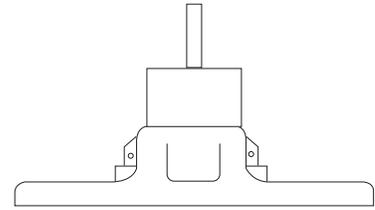
MOUNTING OPTIONS



**V-HOOK
PENDANT MOUNT**



**SURFACE
MOUNT**

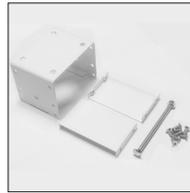


**PENDANT
MOUNT**

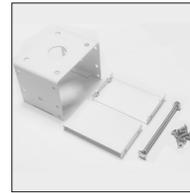
MOUNTING ACCESSORIES



VHCH
V-hook with Chain Kit
(Included)



CB21-SFZ-LED-SMB
Surface Mount Bracket



CB21-SFZ-LED-PMB
Pendant Mount Box
(No Pole)

Example: **CB21-SFZ-LED-12000L/18000L/24000L-DIM10-MVOLT-ND/MD/WD-40K/50K-85-IP65**

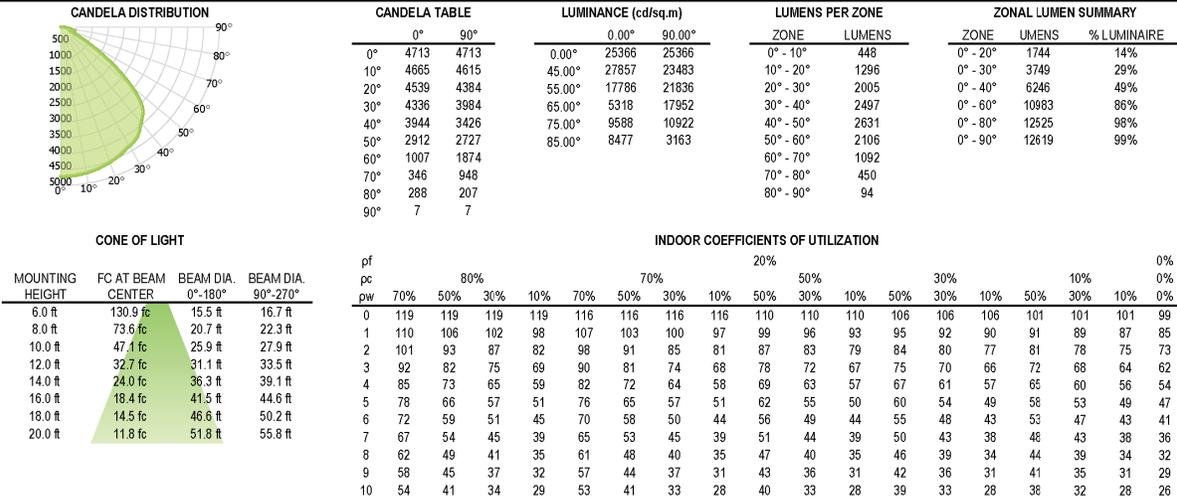
CB21-SFZ-LED									
SERIES	LUMENS	DIMMING	VOLTAGE	DISTRIBUTION	CCT	CRI	RATING	SENSOR	
CB21-SFZ-LED	12000L/18000L/24000L 24000L/30000L/36000L	DIM10 - 0-10V	MVOLT	ND/MD/WD	40K/50K	85	IP65	MS-PIR-102 - Bi-level & Daylight Harvesting Plug-n-play PIR Motion Sensor (12V Input) MS-RC-G1 - Remote Control Control Option for Bi-level Plug-n-play Sensors FSP311-B-D-L(X)-(XX)* - 0-10V continuous dimming PIR photo/ motion sensor with Bluetooth control option OFD1Z-10W - IP66 PIR Side Mount Sensor with Bluetooth Connectivity and UV Stable Plastic	
								OPTION	MOUNTING
								O-EMG-LED-30W (Remote) SPD-10KV 10KV Surge Protection	VHCH - V-hook and Chain Kit (Included) CB21-SFZ-LED-PMB - Pendant Mount Box (No Pole) CB21-SFZ-LED-SMB - Surface Mount Bracket

*Note: Consult factory for sensor maximum mounting height and coverage *(L) mounting height, (XX) finish options black and white. Please refer to Legrand FSP-311B, FSP-321B specification sheets for more information

CB21-SFZ-LED-12000L/18000L/24000L-DIM10-MVOLT-ND/MD/WD-40K/50K-85-IP65 (12000L-WD)

TEST NO.: **EL11182456**

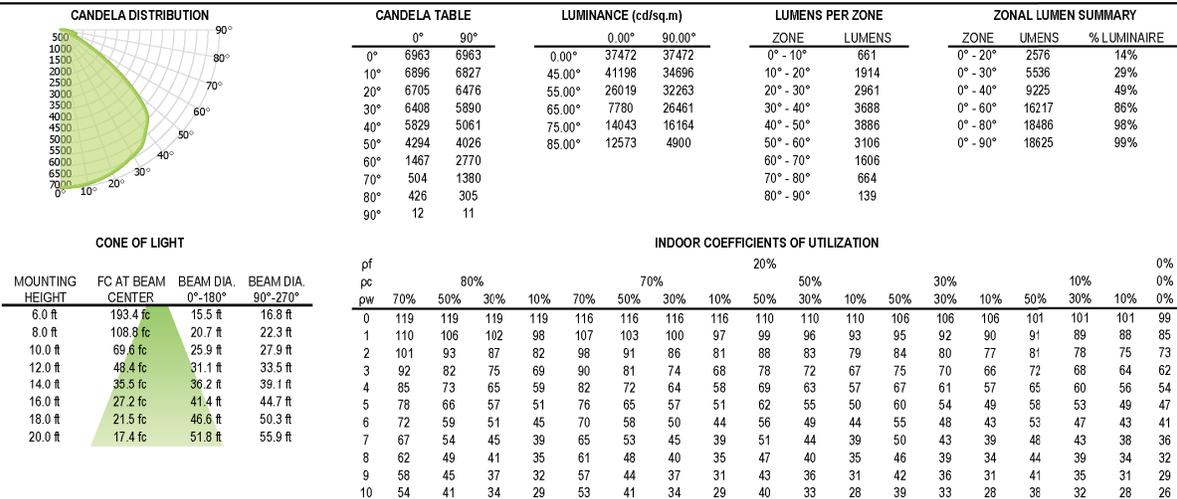
INPUT WATTS: **80.4** LUMENS: **12767** EFFICACY: **159** BEAM ANGLE: **105** SPACING CRITERIA: **1.37**



CB21-SFZ-LED-12000L/18000L/24000L-DIM10-MVOLT-ND/MD/WD-40K/50K-85-IP65 (18000L-WD)

TEST NO.: **EL11182456**

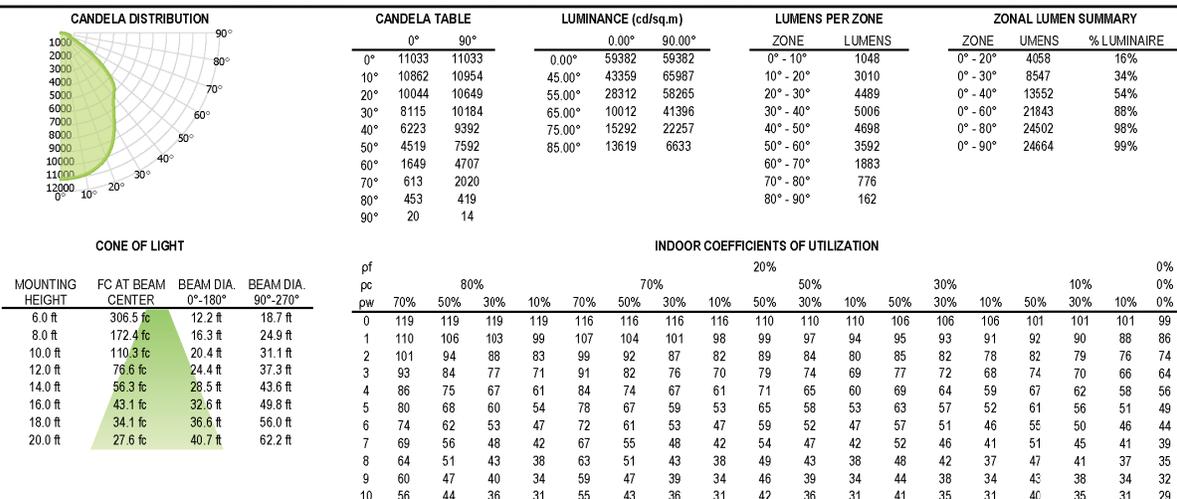
INPUT WATTS: **119.8** LUMENS: **18844** EFFICACY: **157** BEAM ANGLE: **105** SPACING CRITERIA: **1.37**



CB21-SFZ-LED-12000L/18000L/24000L-DIM10-MVOLT-ND/MD/WD-40K/50K-85-IP65 (24000L-MD)

TEST NO.: **EL11182456**

INPUT WATTS: **162.3** LUMENS: **24953** EFFICACY: **154** BEAM ANGLE: **91** SPACING CRITERIA: **1.11**



CB21-SFZ-LED-24000L/30000L/36000L-DIM10-MVOLT-ND/MD/WD-40K/50K-85-IP65 (18000L-WD)

TEST NO.: **EL11182456**

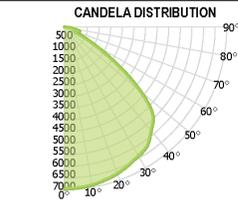
INPUT WATTS: **119.8**

LUMENS: **18844**

EFFICACY: **157**

BEAM ANGLE: **105**

SPACING CRITERIA: **1.37**



CANDELA TABLE	
0°	90°
0°	6969 6933
10°	6896 6827
20°	6705 6476
30°	6408 5890
40°	5829 5061
50°	4294 4026
60°	1467 2770
70°	504 1380
80°	426 305
90°	12 11

LUMINANCE (cd/sq.m)	
0.00°	90.00°
0.00°	37506 37312
45.00°	41198 34696
55.00°	26019 32263
65.00°	7780 26461
75.00°	14043 16164
85.00°	12573 4900

LUMENS PER ZONE	
ZONE	LUMENS
0° - 10°	661
10° - 20°	1914
20° - 30°	2961
30° - 40°	3688
40° - 50°	3886
50° - 60°	3106
60° - 70°	1606
70° - 80°	664
80° - 90°	139

ZONAL LUMEN SUMMARY		
ZONE	UMENS	% LUMINAIRE
0° - 20°	2576	14%
10° - 30°	5536	29%
0° - 40°	9225	49%
0° - 60°	16217	86%
0° - 80°	18486	98%
0° - 90°	18625	99%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	193.6 fc	15.5 ft	16.8 ft
8.0 ft	108.9 fc	20.7 ft	22.3 ft
10.0 ft	69.7 fc	25.9 ft	27.9 ft
12.0 ft	48.4 fc	31.1 ft	33.5 ft
14.0 ft	35.6 fc	36.2 ft	39.1 ft
16.0 ft	27.2 fc	41.4 ft	44.7 ft
18.0 ft	21.5 fc	46.6 ft	50.3 ft
20.0 ft	17.4 fc	51.8 ft	55.9 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	pw	20%												30%	10%	50%	10%	10%	0%
			70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%						
0	119	119	119	119	116	116	116	116	110	110	110	106	106	106	106	101	101	101	99	
1	110	106	102	98	107	103	100	97	99	96	93	95	92	90	91	89	88	85	85	
2	101	93	87	82	98	91	86	81	88	83	79	84	80	77	81	78	75	73	73	
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	72	68	64	62	62	
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54	54	
5	78	66	57	51	76	65	57	51	62	55	50	60	54	49	58	53	49	47	47	
6	72	59	51	45	70	58	50	44	56	49	44	55	48	43	53	47	43	41	41	
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	48	43	38	36	36	
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32	32	
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29	29	
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26	26	

CB21-SFZ-LED-24000L/30000L/36000L-DIM10-MVOLT-ND/MD/WD-40K/50K-85-IP65 (18000L-MD)

TEST NO.: **EL11182456**

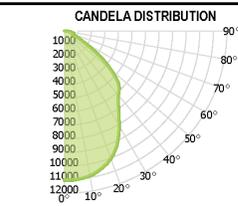
INPUT WATTS: **162.3**

LUMENS: **24953**

EFFICACY: **154**

BEAM ANGLE: **91**

SPACING CRITERIA: **1.11**



CANDELA TABLE	
0°	90°
0°	11026 11051
10°	10862 10954
20°	10044 10649
30°	8115 10184
40°	6223 9392
50°	4519 7592
60°	1649 4707
70°	613 2020
80°	453 419
90°	20 14

LUMINANCE (cd/sq.m)	
0.00°	90.00°
0.00°	59340 59477
45.00°	43359 65987
55.00°	28312 58265
65.00°	10012 41396
75.00°	15292 22257
85.00°	13619 6633

LUMENS PER ZONE	
ZONE	LUMENS
0° - 10°	1048
10° - 20°	3010
20° - 30°	4489
30° - 40°	5006
40° - 50°	4698
50° - 60°	3592
60° - 70°	1883
70° - 80°	776
80° - 90°	162

ZONAL LUMEN SUMMARY		
ZONE	UMENS	% LUMINAIRE
0° - 20°	4058	16%
0° - 30°	8547	34%
0° - 40°	13552	54%
0° - 60°	21843	88%
0° - 80°	24502	98%
0° - 90°	24664	99%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	306.3 fc	12.2 ft	18.7 ft
8.0 ft	172.3 fc	16.3 ft	24.9 ft
10.0 ft	110.3 fc	20.4 ft	31.1 ft
12.0 ft	76.6 fc	24.4 ft	37.3 ft
14.0 ft	56.3 fc	28.5 ft	43.6 ft
16.0 ft	43.1 fc	32.6 ft	49.8 ft
18.0 ft	34.0 fc	36.6 ft	56.0 ft
20.0 ft	27.6 fc	40.7 ft	62.2 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	pw	20%												30%	10%	50%	10%	10%	0%
			70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%						
0	119	119	119	119	116	116	116	116	110	110	110	106	106	106	106	101	101	101	99	
1	110	106	103	99	107	104	101	98	99	97	94	95	93	91	92	90	88	86	86	
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74	74	
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	66	64	64	
4	86	75	67	61	84	74	67	61	71	65	60	69	64	59	67	62	58	56	56	
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	51	49	49	
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	55	50	46	44	44	
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39	39	
8	64	51	43	38	63	51	43	38	49	43	38	48	42	37	47	41	37	35	35	
9	60	47	40	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32	32	
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	29	

CB21-SFZ-LED-24000L/30000L/36000L-DIM10-MVOLT-ND/MD/WD-40K/50K-85-IP65 (24000L-ND)

TEST NO.: **EL11182456**

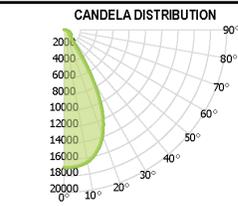
INPUT WATTS: **162.1**

LUMENS: **25058**

EFFICACY: **155**

BEAM ANGLE: **54**

SPACING CRITERIA: **0.91**



CANDELA TABLE	
0°	90°
0°	16910 16902
10°	16512 16983
20°	13797 17237
30°	8939 17771
40°	1385 17975
50°	741 14927
60°	769 8038
70°	448 2625
80°	101 459
90°	9 14

LUMINANCE (cd/sq.m)	
0.00°	90.00°
0.00°	91009 90966
45.00°	7231 130257
55.00°	9406 109192
65.00°	9334 61367
75.00°	4794 26569
85.00°	3637 7020

LUMENS PER ZONE	
ZONE	LUMENS
0° - 10°	1602
10° - 20°	4543
20° - 30°	6319
30° - 40°	5409
40° - 50°	3267
50° - 60°	1931
60° - 70°	1131
70° - 80°	463
80° - 90°	94

ZONAL LUMEN SUMMARY		
ZONE	UMENS	% LUMINAIRE
0° - 20°	6146	25%
0° - 30°	12465	50%
0° - 40°	17874	71%
0° - 60°	23073	92%
0° - 80°	24667	98%
0° - 90°	24761	99%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	469.7 fc	6.2 ft	19.7 ft
8.0 ft	264.2 fc	8.2 ft	26.2 ft
10.0 ft	169.1 fc	10.3 ft	32.8 ft
12.0 ft	117.4 fc	12.3 ft	39.3 ft
14.0 ft	86.3 fc	14.4 ft	45.9 ft
16.0 ft	66.1 fc	16.4 ft	52.5 ft
18.0 ft	52.2 fc	18.5 ft	59.0 ft
20.0 ft	42.3 fc	20.5 ft	65.6 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	pw	20%												30%	10%	50%	10%	10%	0%
			70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%						
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99	99	
1	111	108	105	102	109	106	103	100	101	99	97	96	94	92	91	89	88	86	86	
2	104	98	93	89	102	96	91	87	92	89	85	89	86	83	86	84	81	79	79	
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	79	76	73	71	71	
4	91	81	75	69	89	80	74	69	78	72	68	75	71	67	73	69	66	64	64	
5	85	75	68	62	83	74	67	62	72	66	61	70	64	60	68	63	60	58	58	
6	80	69																		