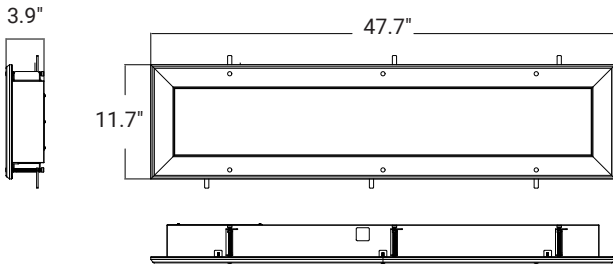


DIMENSIONS



NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
5000	5000	40W
4000	4000	32W
3000	3000	24W

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

FEATURES

The OCRT-LED is a cleanroom LED troffer designed to bring general illumination to sterile or controlled environments without danger of contamination.

IP65 rated, NSF2 and Class 1 (ISO 3) certified, this fixture's sealed and gasketed construction keeps the luminaire separate from its environment and vice versa. Recessed ceiling mount options prevent contamination from entering via the lighting fixture. An excellent source of dimmable, efficient, and glare-free light, the OCRT-LED is available in 1'x4', 2'x2', and 2'x4' configurations with multi-lumen and multi-CCT .

Ideal for use in pharmaceutical and healthcare environments, laboratories, and other controlled environments. Wet location suitable and IC-Rated, air-tight ready, and may be in direct contact with insulation.

LUMENS	3000/ 4000/ 5000
CCT	35K/ 40K/ 50K
CRI	85+ Standard
COLOR QUALITY	3-Step MacAdam Ellipse
MOUNTING	Recessed Mount
BEAM ANGLE	110°
UGR	<22
DIMMING	0-10V Flicker Free 10% Dimming Standard (DIM10)
RATING	Antimicrobial, Antibacterial, IP65
WORKING TEMPERATURE	-25°C (-13°F) - 40°C (104°F)
RELATIVE HUMIDITY	10%-90%RH
LIFETIME	L70 at 50,000 Hours
PHOTOMETRIC TESTS	In accordance with IES LM79-08, LM80 and TM-30, TM-21



OPTICS

Comes standard with a polycarbonate diffuser for a soft and glare-free illumination and UGR of <22. Features a tunable CCT range of 3500K to 5000K.

CONSTRUCTION

Housing backplate built from 21-gauge SPCC (steel plate cold commercial) low carbon steel with a powder coat finish and seam welded construction. Features a lightweight aluminum frame with welded corners and NSF approved microcellular gasketing. Frame hinged by aircraft cables and silicone sealant for easy maintenance and wipe-down. UL wet location, IP65, and NSF2 Splash rated and certified for protection against microbial growth and for ease of sanitation.

MOUNTING

Suitable for T-bar grid or flanged drywall recessed (IC rated) ceiling mounting. Adjustable swing-out mounting brackets included for flange installation. Grid installation suitable for 1" (2.54cm) and 1.5" (3.81cm) T-bar ceilings.

OPTIONS AND ACCESSORIES

Antimicrobial lens finish to prevent the growth of bacteria, viruses, or fungi available to order.

MULTI-LUMEN & MULTI-CCT SWITCH

Convenient multi-lumen and multi-CCT selector switches allow for change of lumen intensity and CCT in the field. Internally located switch requires lens to be removed for operation.

DRIVER ELECTRICAL INFORMATION

DIM10 - Flicker Free 10% Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120, 277V and 120-347V

Class 2 drivers 120-277/347VAC, 50/60Hz electrical input (PF ≥ 0.9, THD < 20%). Minimum 85% electrical efficiency. Aux DC 12V optional for sensor.

WARRANTY

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

LISTING

c-UL-us - Listed for Feed Through Wiring.
Listed for DLC Premium, California Title 24 compliant.
UL Certified for Wet Location.
NSF2 Splash/Non-Food Zone certified.
IP65 rated and suitable for outdoor wet location use.
Suitable for biosafety labs, rated Class 1 (ISO 3) Cleanrooms.
IK03 Rating for durability (PC and antibacterial diffuser only).
RoHs compliant – Contains no mercury or lead.
IC Rated: air-tight ready, and may be in direct contact with insulation.

Example: **14-OCRT-LED-3000L/4000L/5000L-DIM10-MVOLT-35K/40K/50K-85-AM**

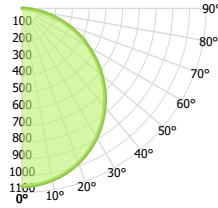
14-OCRT-LED						
SERIES	LUMENS	DIMMING	VOLTAGE	CCT	CRI	FINISH
14-OCRT-LED Clean Room Troffer	3000L/4000L/5000L	DIM10 - 0-10V Dimming	MVOLT	35K/40K/50K	85+	AM - Antimicrobial

14-OCRT-LED-3000L-4000L-5000L-DIM10-MVOLT-35K-40K-50K-85(3000L)

TEST NO.: **EL09262445**

INPUT WATTS: **24.9** LUMENS: **3145** EFFICACY: **126** BEAM ANGLE: **113** SPACING CRITERIA: **1.24**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	1063	1062
10°	1041	1041
20°	982	985
30°	889	912
40°	766	793
50°	620	650
60°	455	487
70°	286	314
80°	115	143
90°	2	2

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	2860	2857
45.00°	2650	2758
55.00°	2531	2678
65.00°	2381	2557
75.00°	2064	2364
85.00°	1160	1912

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	101
10° - 20°	288
20° - 30°	438
30° - 40°	533
40° - 50°	556
50° - 60°	506
60° - 70°	393
70° - 80°	235
80° - 90°	64

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	389	12%
0° - 30°	827	26%
0° - 40°	1360	43%
0° - 60°	2421	77%
0° - 80°	3050	97%
0° - 90°	3144	99%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	29.5 fc	18.2 ft	18.9 ft
8.0 ft	16.6 fc	24.2 ft	25.2 ft
10.0 ft	10.6 fc	30.3 ft	31.5 ft
12.0 ft	7.4 fc	36.4 ft	37.8 ft
14.0 ft	5.4 fc	42.4 ft	44.1 ft
16.0 ft	4.2 fc	48.5 ft	50.4 ft
18.0 ft	3.3 fc	54.5 ft	56.7 ft
20.0 ft	2.7 fc	60.6 ft	63.0 ft

INDOOR COEFFICIENTS OF UTILIZATION

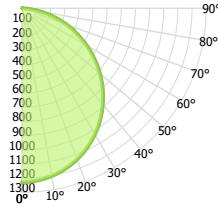
pf	pc	20%																0%	
		80%				70%				50%				30%					
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99	0%
1	108	103	99	95	105	101	97	93	97	93	90	92	90	87	89	87	85	82	0%
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	77	74	70	68	0%
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	64	59	57	0%
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	55	51	49	0%
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42	0%
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	37	0%
7	64	51	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32	0%
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	41	35	31	29	0%
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26	0%
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23	0%

14-OCRT-LED-3000L-4000L-5000L-DIM10-MVOLT-35K-40K-50K-85(4000L)

TEST NO.: **EL09262445**

INPUT WATTS: **29.2** LUMENS: **3628** EFFICACY: **124** BEAM ANGLE: **113** SPACING CRITERIA: **1.24**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	1229	1227
10°	1203	1203
20°	1135	1139
30°	1028	1037
40°	886	918
50°	717	752
60°	527	563
70°	330	363
80°	132	165
90°	2	2

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	3306	3302
45.00°	3062	3191
55.00°	2923	3098
65.00°	2717	2956
75.00°	2385	2731
85.00°	1317	2226

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	116
10° - 20°	333
20° - 30°	505
30° - 40°	612
40° - 50°	642
50° - 60°	584
60° - 70°	454
70° - 80°	271
80° - 90°	74

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	449	12%
0° - 30°	954	26%
0° - 40°	1566	43%
0° - 60°	2793	77%
0° - 80°	3518	97%
0° - 90°	3592	99%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	34.1 fc	18.2 ft	18.9 ft
8.0 ft	19.2 fc	24.2 ft	25.2 ft
10.0 ft	12.3 fc	30.3 ft	31.5 ft
12.0 ft	8.5 fc	36.4 ft	37.8 ft
14.0 ft	6.3 fc	42.4 ft	44.1 ft
16.0 ft	4.8 fc	48.5 ft	50.4 ft
18.0 ft	3.8 fc	54.6 ft	56.7 ft
20.0 ft	3.1 fc	60.6 ft	63.0 ft

INDOOR COEFFICIENTS OF UTILIZATION

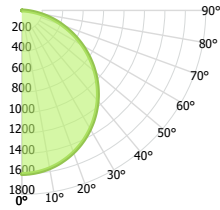
pf	pc	20%																0%	
		80%				70%				50%				30%					
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99	0%
1	108	103	99	95	105	101	97	93	97	93	90	92	90	87	89	87	85	82	0%
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	77	74	70	68	0%
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	63	59	57	0%
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	55	51	49	0%
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42	0%
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	37	0%
7	64	51	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32	0%
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	41	35	31	29	0%
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26	0%
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23	0%

14-OCRT-LED-3000L-4000L-5000L-DIM10-MVOLT-35K-40K-50K-85(5000L)

TEST NO.: **EL09262445**

INPUT WATTS: **39.3** LUMENS: **4715** EFFICACY: **120** BEAM ANGLE: **113** SPACING CRITERIA: **1.24**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	1601	1599
10°	1568	1568
20°	1478	1483
30°	1339	1351
40°	1154	1175
50°	933	963
60°	685	734
70°	425	473
80°	172	214
90°	3	3

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	4307	4304
45.00°	3988	4081
55.00°	3807	4034
65.00°	3535	3852
75.00°	3104	3557
85.00°	1703	2904

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	151
10° - 20°	434
20° - 30°	658
30° - 40°	796
40° - 50°	829
50° - 60°	760
60° - 70°	590
70° - 80°	353
80° - 90°	97

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	585	12%
0° - 30°	1244	26%
0° - 40°	2039	43%
0° - 60°	3629	77%
0° - 80°	4571	97%
0° - 90°	4668	99%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	44.5 fc	18.2 ft	18.9 ft
8.0 ft	25.0 fc	24.2 ft	25.2 ft
10.0 ft	16.0 fc	30.3 ft	31.5 ft
12.0 ft	11.1 fc	36.4 ft	37.8 ft
14.0 ft	8.2 fc	42.4 ft	44.1 ft
16.0 ft	6.3 fc	48.5 ft	50.4 ft
18.0 ft	4.9 fc	54.5 ft	56.7 ft
20.0 ft	4.0 fc	60.6 ft	63.0 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf	20%																0%		
	pc	80%				70%				50%				30%				0%	
		pw	70%	50%	30%	10%	70%	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	101	101	101	99	
1	108	103	99	95	105	101	97	93	97	93	90	92	90	87	89	87	85	82	
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	77	74	70	68	
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	64	59	57	
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	55	51	49	
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42	
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	37	
7	64	51	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32	
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	41	35	31	29	
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26	
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23	