

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P572190

Luminaire Tested: 24ID-65-L830-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-7)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24ID-65-L830-DBR
Description: 6500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

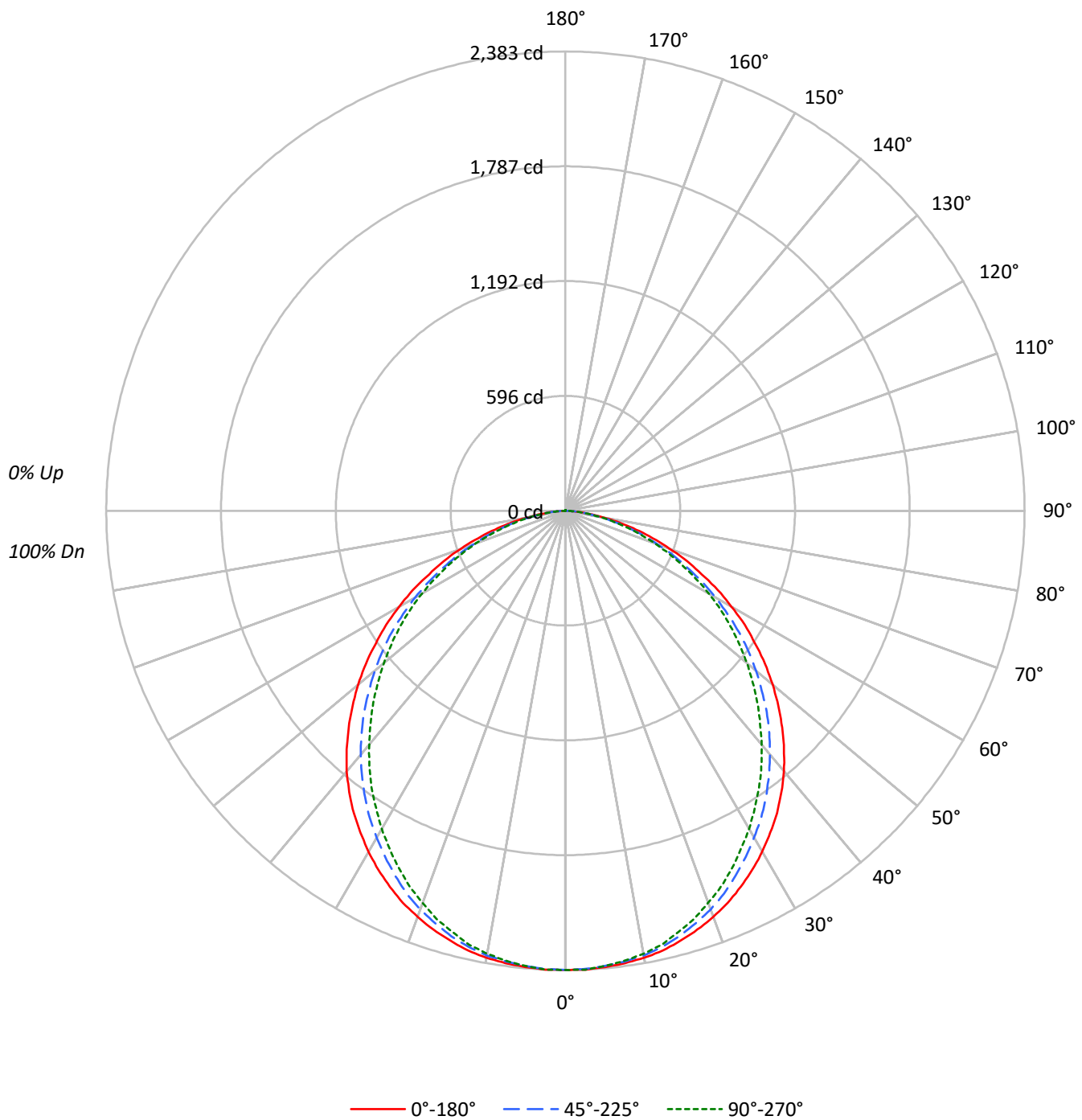
Lumens per Lamp: N/A
Luminaire Lumens: 6263.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.19 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3206	3206	3206
5°	3210	3202	3202
10°	3218	3202	3189
15°	3217	3183	3153
20°	3211	3154	3101
25°	3197	3102	3038
30°	3175	3042	2961
35°	3145	2980	2879
40°	3100	2901	2783
45°	3027	2811	2683
50°	2939	2702	2574
55°	2820	2583	2454
60°	2675	2420	2313
65°	2484	2221	2133
70°	2275	1998	1937
75°	1972	1718	1670
80°	1588	1351	1351
85°	803	851	803

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3027 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.5	3.6
10°-20°	644.5	10.3
20°-30°	964.9	15.4
30°-40°	1140.5	18.2
40°-50°	1148.0	18.3
50°-60°	993.4	15.9
60°-70°	707.5	11.3
70°-80°	363.3	5.8
80°-90°	75.2	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1834.9	29.3
0°-40°	2975.4	47.5
0°-60°	5116.8	81.7
0°-90°	6262.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2383	2383	2383	2383	2383	
5°	2377	2374	2371	2368	2371	226
15°	2310	2300	2285	2267	2264	652
25°	2154	2135	2089	2056	2046	993
35°	1915	1884	1814	1768	1753	1196
45°	1591	1557	1478	1426	1410	1226
55°	1202	1169	1101	1055	1046	1076
65°	780	752	698	673	670	777
75°	379	361	330	318	321	405
85°	52	52	55	55	52	78
90°	0	0	0	0	0	3
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	3	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2383.0	2383.0	2383.0	2383.0	2383.0
2.5°	2383.0	2380.0	2380.0	2376.9	2383.0
5°	2376.9	2373.9	2370.8	2367.8	2370.8
7.5°	2367.8	2361.6	2358.6	2352.5	2355.5
10°	2355.5	2349.4	2343.3	2334.1	2334.1
12.5°	2337.2	2331.0	2318.8	2306.6	2306.6
15°	2309.6	2300.5	2285.2	2266.8	2263.7
17.5°	2279.0	2266.8	2245.4	2224.0	2220.9
20°	2242.3	2230.1	2202.6	2175.0	2165.8
22.5°	2202.6	2187.3	2150.6	2120.0	2110.8
25°	2153.6	2135.3	2089.4	2055.7	2046.5
27.5°	2101.6	2077.1	2025.1	1988.4	1976.2
30°	2043.5	2019.0	1957.8	1921.1	1905.8
32.5°	1979.2	1951.7	1890.5	1844.6	1829.3
35°	1915.0	1884.4	1814.1	1768.2	1752.9
37.5°	1841.6	1807.9	1734.5	1685.6	1670.3
40°	1765.1	1731.5	1651.9	1603.0	1584.6
42.5°	1679.5	1645.8	1566.3	1514.3	1495.9
45°	1590.7	1557.1	1477.5	1425.5	1410.2
47.5°	1499.0	1459.2	1382.7	1333.8	1318.5
50°	1404.1	1364.4	1290.9	1242.0	1229.8
52.5°	1306.2	1266.5	1196.1	1147.2	1138.0
55°	1202.2	1168.6	1101.3	1055.4	1046.2
57.5°	1104.3	1067.6	997.3	963.6	954.4
60°	994.2	963.6	899.4	868.8	859.6
62.5°	893.3	862.7	798.4	764.8	761.7
65°	780.1	752.5	697.5	673.0	669.9
67.5°	682.2	651.6	605.7	581.2	581.2
70°	578.2	550.6	507.8	492.5	492.5
72.5°	474.2	455.8	419.1	403.8	406.9
75°	379.3	361.0	330.4	318.1	321.2
77.5°	290.6	269.2	250.8	241.7	244.7
80°	205.0	189.7	174.4	171.3	174.4
82.5°	122.4	113.2	110.1	110.1	110.1
85°	52.0	52.0	55.1	55.1	52.0
87.5°	21.4	18.4	18.4	21.4	21.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	3.1	0.0	3.1	3.1	3.1
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	3.1	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	3.1
177.5°	0.0	0.0	3.1	3.1	3.1
180°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.78	17.38	16.14	17.69	18.01	15.01	16.61	15.37	16.93	17.24
	3H	17.40	18.84	17.78	19.17	19.53	16.56	18.01	16.94	18.33	18.69
	4H	17.95	19.31	18.35	19.66	20.03	17.08	18.44	17.48	18.79	19.16
	6H	18.31	19.56	18.72	19.93	20.32	17.41	18.67	17.83	19.04	19.43
	8H	18.38	19.58	18.81	19.97	20.37	17.50	18.69	17.92	19.08	19.48
	12H	18.41	19.55	18.84	19.93	20.36	17.53	18.67	17.96	19.06	19.48
4H	2H	16.24	17.60	16.64	17.95	18.32	15.62	16.97	16.02	17.32	17.70
	3H	18.07	19.21	18.48	19.60	20.00	17.37	18.50	17.78	18.90	19.30
	4H	18.74	19.76	19.17	20.18	20.61	17.99	19.01	18.42	19.42	19.86
	6H	19.20	20.09	19.65	20.53	20.99	18.42	19.31	18.87	19.75	20.20
	8H	19.31	20.14	19.77	20.58	21.05	18.53	19.36	18.99	19.80	20.27
	12H	19.35	20.09	19.83	20.57	21.04	18.58	19.33	19.06	19.80	20.27
8H	4H	18.93	19.76	19.39	20.20	20.67	18.25	19.08	18.71	19.52	19.99
	6H	19.46	20.15	19.96	20.64	21.12	18.76	19.45	19.25	19.93	20.41
	8H	19.61	20.23	20.12	20.73	21.22	18.91	19.53	19.42	20.04	20.52
	12H	19.69	20.23	20.19	20.72	21.28	19.00	19.55	19.51	20.04	20.60
12H	4H	18.93	19.68	19.42	20.16	20.63	18.26	19.01	18.75	19.49	19.96
	6H	19.47	20.09	19.98	20.60	21.08	18.78	19.40	19.29	19.91	20.40
	8H	19.66	20.20	20.17	20.69	21.26	18.98	19.52	19.49	20.02	20.58

END OF REPORT