

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: P572206

Luminaire Tested: 24ID-75-L830-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572206
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-75-L830-DBR
Description: 7500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

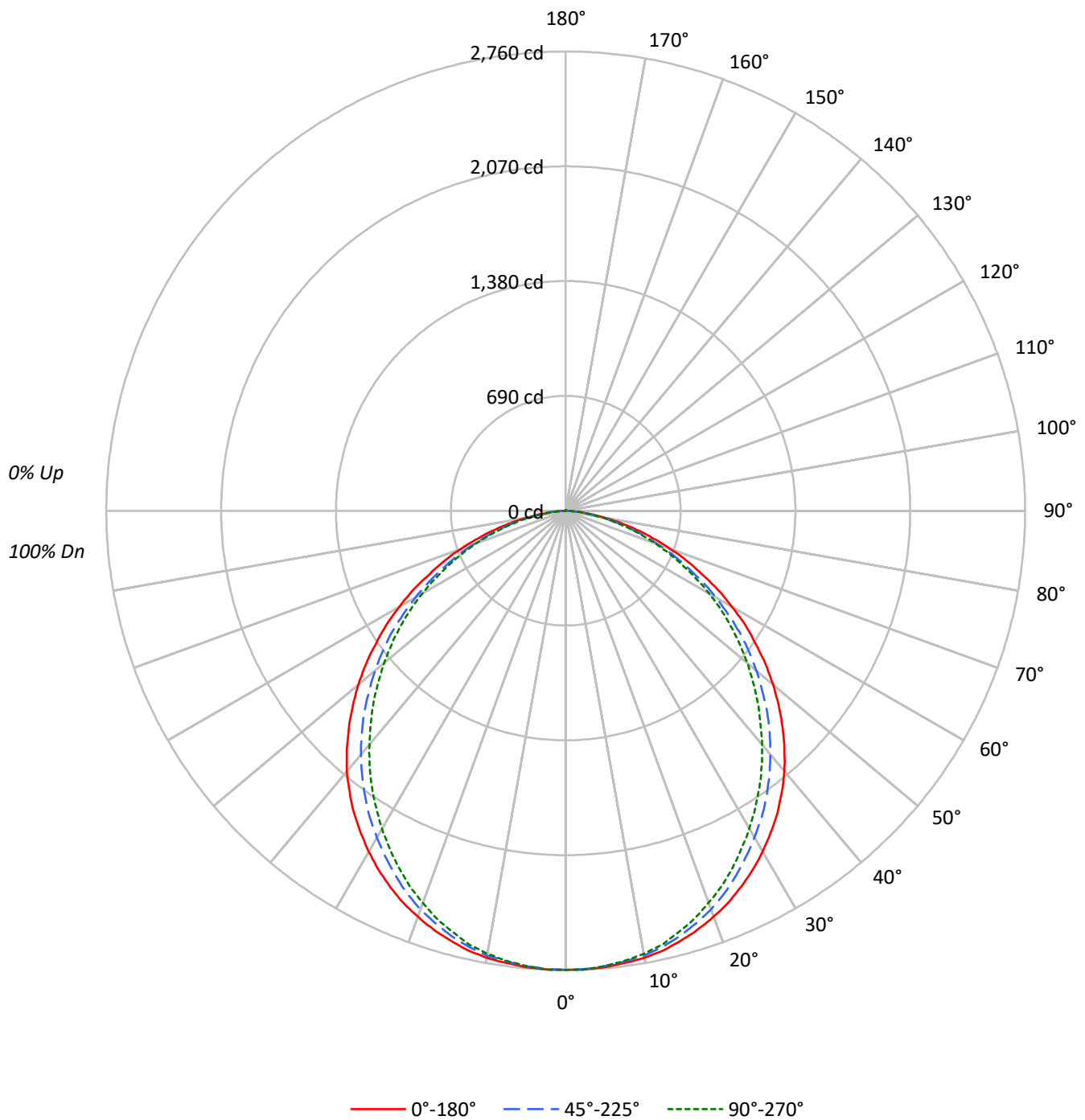
Lumens per Lamp: N/A
Luminaire Lumens: 7253.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.19 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.8
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	95	98	95	92		94	92	90		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	31	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3713	3713	3713
5°	3718	3708	3708
10°	3727	3708	3693
15°	3726	3686	3652
20°	3718	3652	3591
25°	3703	3592	3518
30°	3677	3523	3429
35°	3643	3451	3334
40°	3590	3360	3223
45°	3505	3256	3108
50°	3404	3129	2981
55°	3266	2992	2842
60°	3098	2803	2679
65°	2876	2571	2470
70°	2634	2314	2244
75°	2284	1989	1934
80°	1839	1564	1564
85°	929	985	929

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3505 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.1	3.6
10°-20°	746.4	10.3
20°-30°	1117.5	15.4
30°-40°	1320.8	18.2
40°-50°	1329.5	18.3
50°-60°	1150.4	15.9
60°-70°	819.3	11.3
70°-80°	420.7	5.8
80°-90°	87.0	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°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	2125.0	29.3
0°-40°	3445.7	47.5
0°-60°	5925.6	81.7
0°-90°	7252.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2760	2760	2760	2760	2760	
5°	2753	2749	2746	2742	2746	262
15°	2675	2664	2646	2625	2622	755
25°	2494	2473	2420	2381	2370	1149
35°	2218	2182	2101	2048	2030	1386
45°	1842	1803	1711	1651	1633	1420
55°	1392	1353	1275	1222	1212	1246
65°	903	872	808	779	776	900
75°	439	418	383	368	372	469
85°	60	60	64	64	60	90
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	4	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2759.7	2759.7	2759.7	2759.7	2759.7
2.5°	2759.7	2756.2	2756.2	2752.7	2759.7
5°	2752.7	2749.1	2745.6	2742.0	2745.6
7.5°	2742.0	2734.9	2731.4	2724.3	2727.9
10°	2727.9	2720.8	2713.7	2703.1	2703.1
12.5°	2706.6	2699.5	2685.3	2671.2	2671.2
15°	2674.7	2664.1	2646.4	2625.1	2621.6
17.5°	2639.3	2625.1	2600.3	2575.5	2572.0
20°	2596.8	2582.6	2550.7	2518.8	2508.2
22.5°	2550.7	2533.0	2490.5	2455.1	2444.4
25°	2494.0	2472.8	2419.6	2380.7	2370.0
27.5°	2433.8	2405.5	2345.2	2302.7	2288.6
30°	2366.5	2338.2	2267.3	2224.8	2207.1
32.5°	2292.1	2260.2	2189.4	2136.2	2118.5
35°	2217.7	2182.3	2100.8	2047.7	2029.9
37.5°	2132.7	2093.7	2008.7	1952.0	1934.3
40°	2044.1	2005.1	1913.0	1856.4	1835.1
42.5°	1944.9	1906.0	1813.8	1753.6	1732.4
45°	1842.2	1803.2	1711.1	1650.9	1633.2
47.5°	1735.9	1689.9	1601.3	1544.6	1526.9
50°	1626.1	1580.0	1495.0	1438.3	1424.2
52.5°	1512.7	1466.7	1385.2	1328.5	1317.9
55°	1392.3	1353.3	1275.4	1222.2	1211.6
57.5°	1278.9	1236.4	1154.9	1115.9	1105.3
60°	1151.4	1115.9	1041.5	1006.1	995.5
62.5°	1034.5	999.0	924.6	885.7	882.1
65°	903.4	871.5	807.7	779.4	775.8
67.5°	790.0	754.6	701.4	673.1	673.1
70°	669.6	637.7	588.1	570.4	570.4
72.5°	549.1	527.9	485.3	467.6	471.2
75°	439.3	418.0	382.6	368.4	372.0
77.5°	336.6	311.8	290.5	279.9	283.4
80°	237.4	219.6	201.9	198.4	201.9
82.5°	141.7	131.1	127.5	127.5	127.5
85°	60.2	60.2	63.8	63.8	60.2
87.5°	24.8	21.3	21.3	24.8	24.8
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°	3.5	0.0	3.5	3.5	3.5
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	3.5	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	3.5
177.5°	0.0	0.0	3.5	3.5	3.5
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	16.29	17.89	16.65	18.20	18.52	15.52	17.12	15.88	17.44	17.75
	3H	17.91	19.35	18.29	19.68	20.04	17.07	18.52	17.45	18.84	19.20
	4H	18.46	19.82	18.86	20.17	20.54	17.59	18.95	17.99	19.30	19.67
	6H	18.82	20.07	19.23	20.44	20.83	17.92	19.18	18.34	19.55	19.94
	8H	18.89	20.09	19.32	20.48	20.88	18.01	19.20	18.43	19.59	19.99
	12H	18.92	20.06	19.35	20.44	20.87	18.04	19.18	18.47	19.57	19.99
4H	2H	16.75	18.11	17.15	18.46	18.83	16.13	17.48	16.53	17.83	18.21
	3H	18.58	19.72	18.99	20.11	20.51	17.88	19.01	18.29	19.41	19.81
	4H	19.25	20.27	19.68	20.69	21.12	18.50	19.52	18.93	19.93	20.37
	6H	19.71	20.60	20.16	21.04	21.50	18.93	19.82	19.38	20.26	20.71
	8H	19.82	20.65	20.28	21.09	21.56	19.04	19.87	19.50	20.31	20.78
	12H	19.86	20.60	20.34	21.08	21.55	19.09	19.84	19.57	20.31	20.78
8H	4H	19.44	20.27	19.90	20.71	21.18	18.76	19.59	19.22	20.03	20.50
	6H	19.97	20.66	20.47	21.15	21.63	19.27	19.96	19.76	20.44	20.92
	8H	20.12	20.74	20.63	21.24	21.73	19.42	20.04	19.93	20.55	21.03
	12H	20.20	20.74	20.70	21.23	21.79	19.51	20.06	20.02	20.55	21.11
12H	4H	19.44	20.19	19.93	20.67	21.14	18.77	19.52	19.26	20.00	20.47
	6H	19.98	20.60	20.49	21.11	21.59	19.29	19.91	19.80	20.42	20.90
	8H	20.17	20.71	20.68	21.20	21.77	19.49	20.03	20.00	20.53	21.09