

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: P572208

Luminaire Tested: 24ID-75-L835-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572208
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-L835-DBR
Description: 7500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

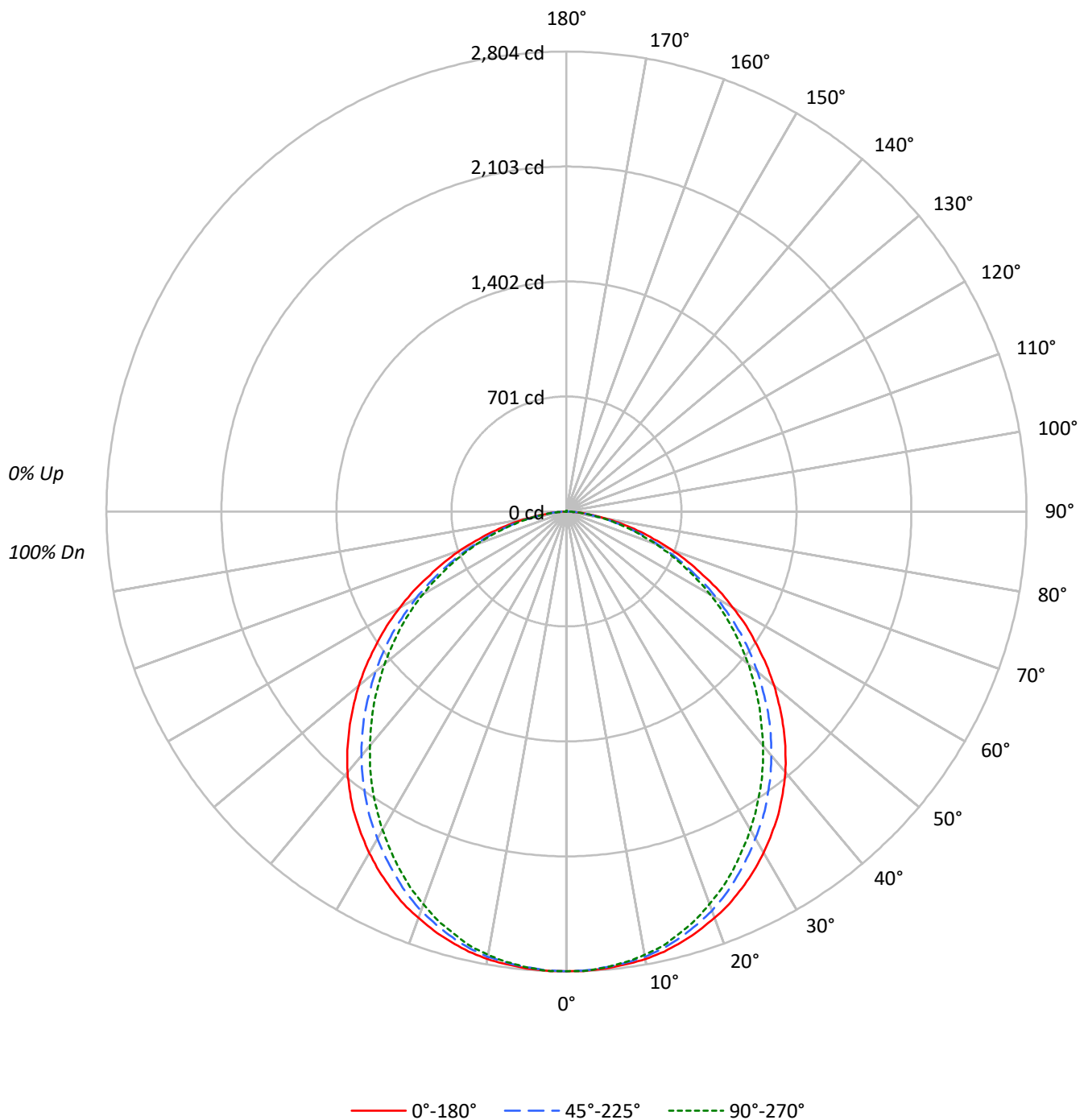
Lumens per Lamp: N/A
Luminaire Lumens: 7368.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.19 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	3772	3772	3772
5°	3777	3767	3767
10°	3786	3766	3752
15°	3785	3745	3710
20°	3777	3710	3648
25°	3761	3649	3574
30°	3735	3578	3483
35°	3700	3505	3387
40°	3647	3413	3274
45°	3561	3307	3157
50°	3458	3179	3028
55°	3318	3039	2887
60°	3147	2847	2721
65°	2922	2612	2509
70°	2676	2350	2279
75°	2320	2021	1965
80°	1868	1589	1589
85°	945	1000	945

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3561 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.2	3.6
10°-20°	758.2	10.3
20°-30°	1135.2	15.4
30°-40°	1341.7	18.2
40°-50°	1350.5	18.3
50°-60°	1168.7	15.9
60°-70°	832.3	11.3
70°-80°	427.3	5.8
80°-90°	88.4	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°	2158.6	29.3
0°-40°	3500.4	47.5
0°-60°	6019.6	81.7
0°-90°	7367.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7368.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2804	2804	2804	2804	2804	
5°	2796	2793	2789	2786	2789	266
15°	2717	2706	2688	2667	2663	767
25°	2534	2512	2458	2418	2408	1168
35°	2253	2217	2134	2080	2062	1408
45°	1871	1832	1738	1677	1659	1443
55°	1414	1375	1296	1242	1231	1266
65°	918	885	820	792	788	914
75°	446	425	389	374	378	476
85°	61	61	65	65	61	92
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°	2803.5	2803.5	2803.5	2803.5	2803.5
2.5°	2803.5	2799.9	2799.9	2796.3	2803.5
5°	2796.3	2792.7	2789.1	2785.5	2789.1
7.5°	2785.5	2778.3	2774.7	2767.5	2771.1
10°	2771.1	2763.9	2756.7	2745.9	2745.9
12.5°	2749.5	2742.3	2727.9	2713.5	2713.5
15°	2717.1	2706.3	2688.3	2666.7	2663.1
17.5°	2681.1	2666.7	2641.5	2616.4	2612.8
20°	2637.9	2623.6	2591.2	2558.8	2548.0
22.5°	2591.2	2573.2	2530.0	2494.0	2483.2
25°	2533.6	2512.0	2458.0	2418.4	2407.6
27.5°	2472.4	2443.6	2382.4	2339.2	2324.8
30°	2404.0	2375.2	2303.3	2260.1	2242.1
32.5°	2328.4	2296.1	2224.1	2170.1	2152.1
35°	2252.9	2216.9	2134.1	2080.1	2062.1
37.5°	2166.5	2126.9	2040.5	1983.0	1965.0
40°	2076.5	2036.9	1943.4	1885.8	1864.2
42.5°	1975.8	1936.2	1842.6	1781.4	1759.8
45°	1871.4	1831.8	1738.2	1677.1	1659.1
47.5°	1763.4	1716.6	1626.7	1569.1	1551.1
50°	1651.9	1605.1	1518.7	1461.1	1446.7
52.5°	1536.7	1489.9	1407.1	1349.6	1338.8
55°	1414.3	1374.8	1295.6	1241.6	1230.8
57.5°	1299.2	1256.0	1173.2	1133.6	1122.8
60°	1169.6	1133.6	1058.1	1022.1	1011.3
62.5°	1050.9	1014.9	939.3	899.7	896.1
65°	917.7	885.3	820.5	791.7	788.1
67.5°	802.5	766.6	712.6	683.8	683.8
70°	680.2	647.8	597.4	579.4	579.4
72.5°	557.8	536.2	493.0	475.0	478.6
75°	446.3	424.7	388.7	374.3	377.9
77.5°	341.9	316.7	295.1	284.3	287.9
80°	241.1	223.1	205.1	201.5	205.1
82.5°	144.0	133.2	129.6	129.6	129.6
85°	61.2	61.2	64.8	64.8	61.2
87.5°	25.2	21.6	21.6	25.2	25.2
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°	3.6	0.0	3.6	3.6	3.6
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	3.6	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	3.6
177.5°	0.0	0.0	3.6	3.6	3.6
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	16.34	17.94	16.71	18.26	18.57	15.57	17.18	15.94	17.49	17.80
	3H	17.97	19.41	18.34	19.74	20.10	17.13	18.57	17.50	18.90	19.26
	4H	18.52	19.87	18.92	20.22	20.60	17.65	19.00	18.05	19.35	19.73
	6H	18.87	20.13	19.28	20.49	20.88	17.98	19.24	18.39	19.60	19.99
	8H	18.95	20.15	19.37	20.54	20.93	18.06	19.26	18.49	19.65	20.05
	12H	18.97	20.12	19.40	20.50	20.93	18.09	19.24	18.52	19.62	20.05
4H	2H	16.80	18.16	17.20	18.51	18.89	16.18	17.54	16.58	17.89	18.26
	3H	18.64	19.77	19.05	20.17	20.57	17.93	19.06	18.34	19.46	19.86
	4H	19.31	20.33	19.74	20.74	21.18	18.55	19.57	18.98	19.99	20.42
	6H	19.76	20.65	20.22	21.09	21.55	18.98	19.87	19.44	20.31	20.77
	8H	19.87	20.70	20.33	21.14	21.61	19.09	19.92	19.55	20.37	20.83
	12H	19.91	20.66	20.40	21.14	21.61	19.15	19.89	19.63	20.37	20.84
8H	4H	19.49	20.32	19.95	20.77	21.23	18.81	19.64	19.27	20.09	20.55
	6H	20.03	20.72	20.52	21.21	21.68	19.32	20.01	19.82	20.50	20.97
	8H	20.18	20.79	20.69	21.30	21.79	19.48	20.09	19.99	20.60	21.09
	12H	20.25	20.80	20.76	21.29	21.85	19.57	20.11	20.08	20.61	21.17
12H	4H	19.50	20.24	19.98	20.72	21.19	18.83	19.57	19.31	20.05	20.52
	6H	20.04	20.66	20.55	21.16	21.65	19.35	19.97	19.86	20.47	20.96
	8H	20.22	20.77	20.73	21.26	21.82	19.54	20.09	20.05	20.58	21.14