

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: P572186

Luminaire Tested: 24ID-60-L840-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572186
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-60-L840-DBR
Description: 6000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

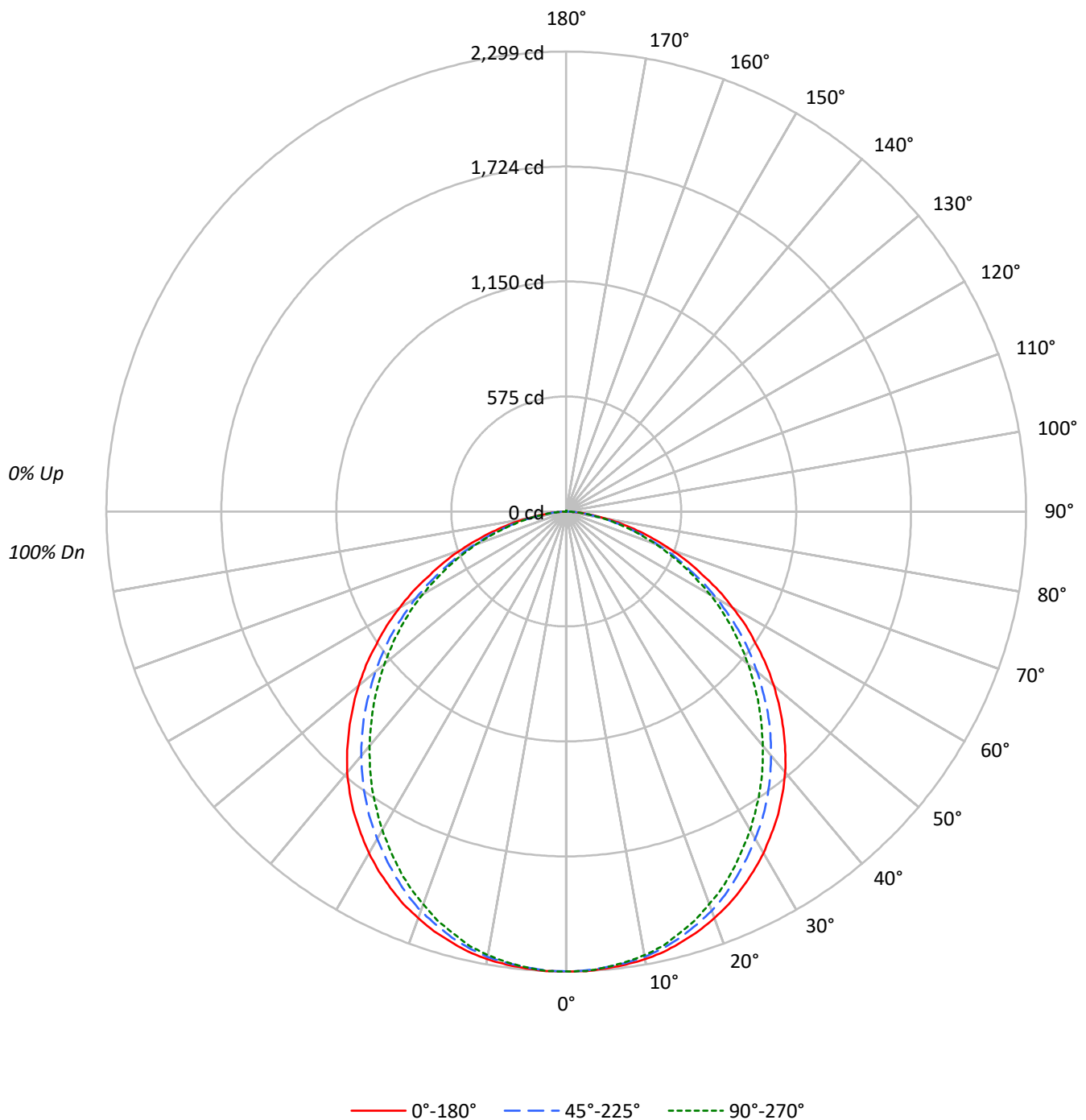
Lumens per Lamp: N/A
Luminaire Lumens: 6043.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.19 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 54.5
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°	3094	3094	3094
5°	3098	3090	3090
10°	3105	3089	3077
15°	3104	3071	3042
20°	3098	3043	2992
25°	3085	2993	2932
30°	3063	2935	2857
35°	3035	2875	2778
40°	2991	2800	2686
45°	2921	2713	2589
50°	2836	2607	2484
55°	2721	2493	2368
60°	2581	2335	2232
65°	2396	2143	2058
70°	2195	1928	1869
75°	1903	1657	1611
80°	1533	1303	1303
85°	775	820	775

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2921 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.5	3.6
10°-20°	621.9	10.3
20°-30°	931.0	15.4
30°-40°	1100.4	18.2
40°-50°	1107.7	18.3
50°-60°	958.5	15.9
60°-70°	682.7	11.3
70°-80°	350.5	5.8
80°-90°	72.5	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°	1770.5	29.3
0°-40°	2870.9	47.5
0°-60°	4937.1	81.7
0°-90°	6042.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6043.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2299	2299	2299	2299	2299	
5°	2293	2290	2288	2285	2288	218
15°	2228	2220	2205	2187	2184	629
25°	2078	2060	2016	1984	1975	958
35°	1848	1818	1750	1706	1691	1154
45°	1535	1502	1426	1376	1361	1183
55°	1160	1128	1063	1018	1010	1038
65°	753	726	673	649	646	750
75°	366	348	319	307	310	391
85°	50	50	53	53	50	75
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°	2299.3	2299.3	2299.3	2299.3	2299.3
2.5°	2299.3	2296.4	2296.4	2293.4	2299.3
5°	2293.4	2290.5	2287.5	2284.6	2287.5
7.5°	2284.6	2278.7	2275.7	2269.8	2272.8
10°	2272.8	2266.9	2261.0	2252.1	2252.1
12.5°	2255.1	2249.2	2237.4	2225.5	2225.5
15°	2228.5	2219.6	2204.9	2187.2	2184.2
17.5°	2199.0	2187.2	2166.5	2145.9	2142.9
20°	2163.6	2151.8	2125.2	2098.6	2089.8
22.5°	2125.2	2110.4	2075.0	2045.5	2036.6
25°	2078.0	2060.3	2016.0	1983.5	1974.7
27.5°	2027.8	2004.2	1954.0	1918.6	1906.8
30°	1971.7	1948.1	1889.1	1853.6	1838.9
32.5°	1909.7	1883.2	1824.1	1779.8	1765.1
35°	1847.7	1818.2	1750.3	1706.1	1691.3
37.5°	1776.9	1744.4	1673.6	1626.4	1611.6
40°	1703.1	1670.6	1593.9	1546.7	1529.0
42.5°	1620.5	1588.0	1511.2	1461.1	1443.4
45°	1534.9	1502.4	1425.6	1375.5	1360.7
47.5°	1446.3	1407.9	1334.1	1286.9	1272.2
50°	1354.8	1316.4	1245.6	1198.4	1186.6
52.5°	1260.4	1222.0	1154.1	1106.9	1098.0
55°	1160.0	1127.5	1062.6	1018.3	1009.5
57.5°	1065.5	1030.1	962.2	929.8	920.9
60°	959.3	929.8	867.8	838.3	829.4
62.5°	861.9	832.4	770.4	737.9	735.0
65°	752.7	726.1	673.0	649.4	646.4
67.5°	658.2	628.7	584.4	560.8	560.8
70°	557.9	531.3	490.0	475.2	475.2
72.5°	457.5	439.8	404.4	389.6	392.6
75°	366.0	348.3	318.8	307.0	309.9
77.5°	280.4	259.7	242.0	233.2	236.1
80°	197.8	183.0	168.2	165.3	168.2
82.5°	118.1	109.2	106.3	106.3	106.3
85°	50.2	50.2	53.1	53.1	50.2
87.5°	20.7	17.7	17.7	20.7	20.7
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°	3.0	0.0	3.0	3.0	3.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	3.0	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	3.0
177.5°	0.0	0.0	3.0	3.0	3.0
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	15.65	17.25	16.02	17.57	17.88	14.89	16.49	15.25	16.80	17.12
	3H	17.28	18.72	17.65	19.05	19.41	16.44	17.88	16.82	18.21	18.57
	4H	17.83	19.19	18.23	19.53	19.91	16.96	18.32	17.36	18.66	19.04
	6H	18.18	19.44	18.59	19.80	20.19	17.29	18.55	17.70	18.91	19.30
	8H	18.26	19.46	18.68	19.85	20.25	17.37	18.57	17.80	18.96	19.36
	12H	18.28	19.43	18.71	19.81	20.24	17.40	18.55	17.83	18.93	19.36
4H	2H	16.12	17.47	16.51	17.82	18.20	15.49	16.85	15.89	17.20	17.57
	3H	17.95	19.08	18.36	19.48	19.88	17.24	18.37	17.65	18.77	19.17
	4H	18.62	19.64	19.05	20.05	20.49	17.86	18.88	18.29	19.30	19.73
	6H	19.07	19.96	19.53	20.41	20.86	18.29	19.18	18.75	19.62	20.08
	8H	19.18	20.01	19.64	20.46	20.92	18.40	19.23	18.86	19.68	20.14
	12H	19.23	19.97	19.71	20.45	20.92	18.46	19.20	18.94	19.68	20.15
8H	4H	18.80	19.64	19.27	20.08	20.54	18.12	18.95	18.58	19.40	19.86
	6H	19.34	20.03	19.83	20.52	20.99	18.63	19.32	19.13	19.81	20.29
	8H	19.49	20.10	20.00	20.61	21.10	18.79	19.40	19.30	19.91	20.40
	12H	19.56	20.11	20.07	20.60	21.16	18.88	19.43	19.39	19.92	20.48
12H	4H	18.81	19.55	19.29	20.03	20.50	18.14	18.89	18.62	19.36	19.83
	6H	19.35	19.97	19.86	20.47	20.96	18.66	19.28	19.17	19.78	20.27
	8H	19.53	20.08	20.04	20.57	21.13	18.86	19.40	19.36	19.89	20.45