

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: P572184

Luminaire Tested: 24ID-60-L835-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572184
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-L835-DBR
Description: 6000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

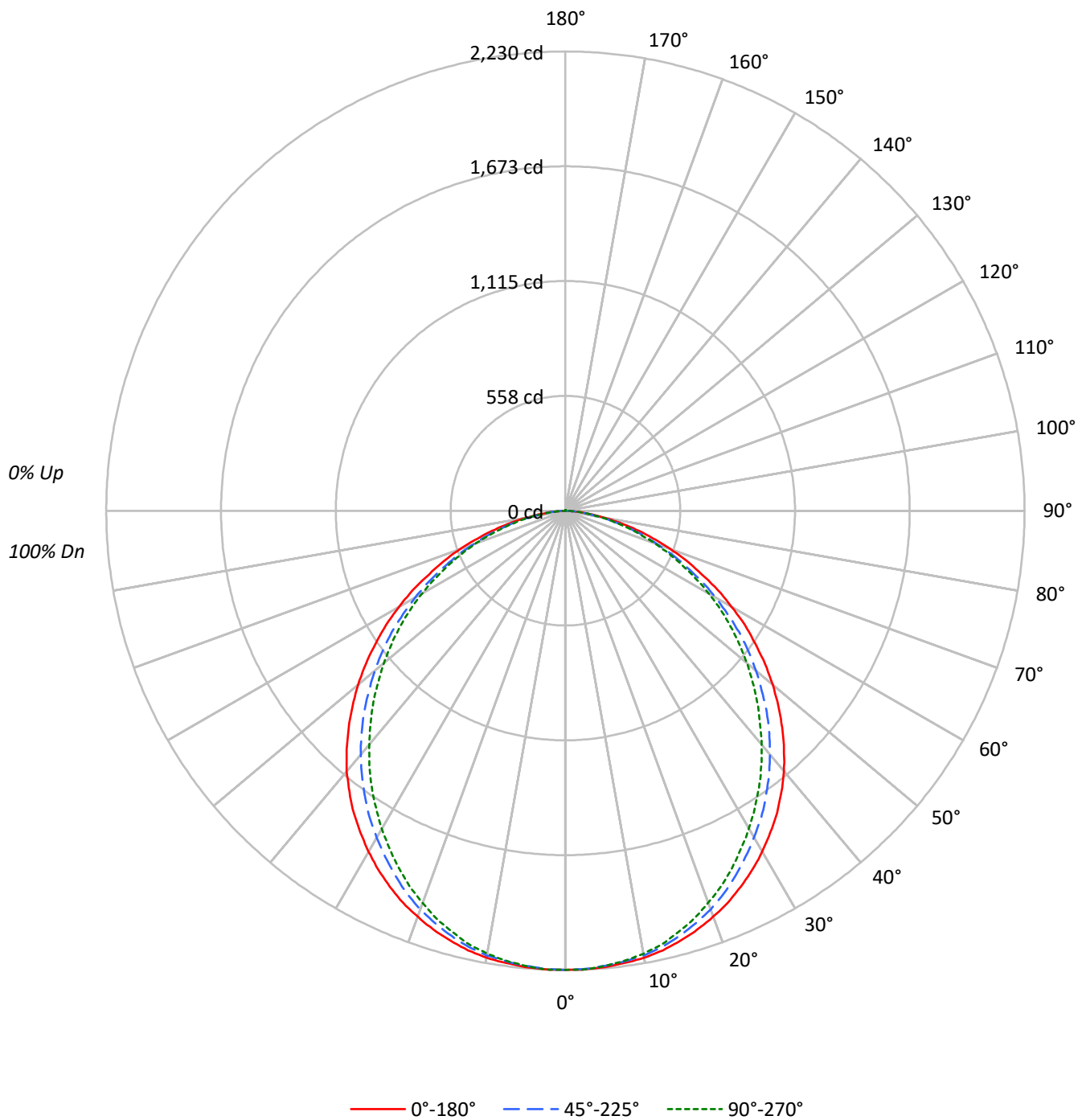
Lumens per Lamp: N/A
Luminaire Lumens: 5860.0 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.19 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	3000	3000	3000
5°	3004	2996	2996
10°	3011	2995	2984
15°	3010	2978	2950
20°	3004	2951	2902
25°	2991	2902	2843
30°	2971	2846	2770
35°	2943	2788	2694
40°	2901	2715	2604
45°	2832	2631	2511
50°	2750	2528	2408
55°	2639	2417	2296
60°	2503	2264	2164
65°	2324	2078	1996
70°	2128	1869	1813
75°	1845	1607	1562
80°	1486	1264	1264
85°	752	795	752

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2832 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.9	3.6
10°-20°	603.0	10.3
20°-30°	902.9	15.4
30°-40°	1067.1	18.2
40°-50°	1074.1	18.3
50°-60°	929.5	15.9
60°-70°	662.0	11.3
70°-80°	339.9	5.8
80°-90°	70.3	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°	1716.8	29.3
0°-40°	2784.0	47.5
0°-60°	4787.6	81.7
0°-90°	5859.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2230	2230	2230	2230	2230	
5°	2224	2221	2218	2215	2218	212
15°	2161	2152	2138	2121	2118	610
25°	2015	1998	1955	1923	1915	929
35°	1792	1763	1697	1654	1640	1120
45°	1488	1457	1382	1334	1320	1147
55°	1125	1093	1030	988	979	1007
65°	730	704	653	630	627	727
75°	355	338	309	298	300	379
85°	49	49	52	52	49	73
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°	2229.7	2229.7	2229.7	2229.7	2229.7
2.5°	2229.7	2226.8	2226.8	2224.0	2229.7
5°	2224.0	2221.1	2218.3	2215.4	2218.3
7.5°	2215.4	2209.7	2206.8	2201.1	2203.9
10°	2203.9	2198.2	2192.5	2183.9	2183.9
12.5°	2186.8	2181.0	2169.6	2158.1	2158.1
15°	2161.0	2152.4	2138.1	2120.9	2118.1
17.5°	2132.4	2120.9	2100.9	2080.9	2078.0
20°	2098.0	2086.6	2060.8	2035.1	2026.5
22.5°	2060.8	2046.5	2012.2	1983.6	1975.0
25°	2015.0	1997.9	1954.9	1923.4	1914.9
27.5°	1966.4	1943.5	1894.8	1860.5	1849.0
30°	1912.0	1889.1	1831.9	1797.5	1783.2
32.5°	1851.9	1826.1	1768.9	1725.9	1711.6
35°	1791.8	1763.2	1697.3	1654.4	1640.1
37.5°	1723.1	1691.6	1622.9	1577.1	1562.8
40°	1651.5	1620.0	1545.6	1499.8	1482.7
42.5°	1571.4	1539.9	1465.5	1416.8	1399.6
45°	1488.4	1456.9	1382.5	1333.8	1319.5
47.5°	1402.5	1365.3	1293.7	1247.9	1233.6
50°	1313.8	1276.6	1207.9	1162.1	1150.6
52.5°	1222.2	1185.0	1119.1	1073.4	1064.8
55°	1124.9	1093.4	1030.4	987.5	978.9
57.5°	1033.3	998.9	933.1	901.6	893.0
60°	930.2	901.6	841.5	812.9	804.3
62.5°	835.8	807.2	747.1	715.6	712.7
65°	729.9	704.1	652.6	629.7	626.8
67.5°	638.3	609.7	566.7	543.8	543.8
70°	541.0	515.2	475.1	460.8	460.8
72.5°	443.7	426.5	392.1	377.8	380.7
75°	354.9	337.7	309.1	297.7	300.5
77.5°	271.9	251.9	234.7	226.1	229.0
80°	191.8	177.5	163.1	160.3	163.1
82.5°	114.5	105.9	103.0	103.0	103.0
85°	48.7	48.7	51.5	51.5	48.7
87.5°	20.0	17.2	17.2	20.0	20.0
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°	2.9	0.0	2.9	2.9	2.9
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	2.9	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	2.9
177.5°	0.0	0.0	2.9	2.9	2.9
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	15.55	17.15	15.91	17.46	17.78	14.78	16.38	15.14	16.69	17.01
	3H	17.17	18.61	17.55	18.94	19.30	16.33	17.77	16.71	18.10	18.46
	4H	17.72	19.08	18.12	19.43	19.80	16.85	18.21	17.25	18.56	18.93
	6H	18.07	19.33	18.49	19.70	20.09	17.18	18.44	17.59	18.80	19.20
	8H	18.15	19.35	18.58	19.74	20.14	17.26	18.46	17.69	18.85	19.25
	12H	18.17	19.32	18.60	19.70	20.13	17.29	18.44	17.72	18.82	19.25
4H	2H	16.01	17.37	16.41	17.71	18.09	15.39	16.74	15.78	17.09	17.47
	3H	17.84	18.97	18.25	19.37	19.77	17.14	18.27	17.55	18.67	19.07
	4H	18.51	19.53	18.94	19.94	20.38	17.76	18.78	18.19	19.19	19.63
	6H	18.97	19.86	19.42	20.30	20.76	18.19	19.07	18.64	19.52	19.97
	8H	19.08	19.91	19.54	20.35	20.82	18.30	19.13	18.76	19.57	20.04
	12H	19.12	19.86	19.60	20.34	20.81	18.35	19.09	18.83	19.57	20.04
8H	4H	18.70	19.53	19.16	19.97	20.44	18.02	18.85	18.48	19.29	19.76
	6H	19.23	19.92	19.73	20.41	20.89	18.53	19.21	19.02	19.70	20.18
	8H	19.38	20.00	19.89	20.50	20.99	18.68	19.30	19.19	19.80	20.29
	12H	19.46	20.00	19.96	20.49	21.05	18.77	19.32	19.28	19.81	20.37
12H	4H	18.70	19.45	19.18	19.92	20.39	18.03	18.78	18.51	19.25	19.72
	6H	19.24	19.86	19.75	20.37	20.85	18.55	19.17	19.06	19.68	20.16
	8H	19.43	19.97	19.94	20.46	21.03	18.75	19.29	19.26	19.78	20.35

END OF REPORT