

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: P572183

Luminaire Tested: 24ID-60-L835-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-8)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24ID-60-L835-DBD
Description: 6000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

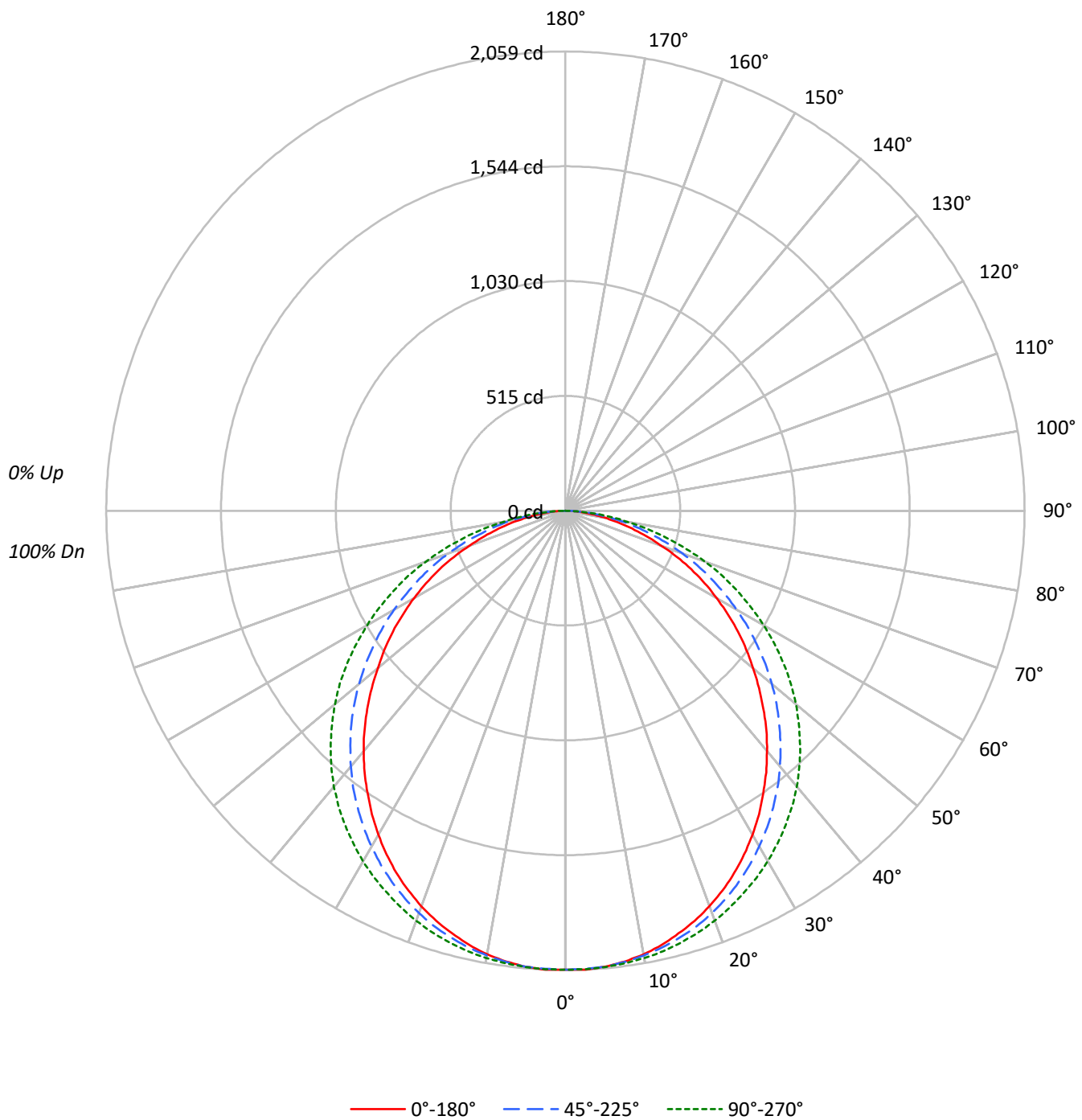
Lumens per Lamp: N/A
Luminaire Lumens: 5870.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

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	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52
5	76	63	54	47	74	62	53	47	59	52	46	58	51	46	56	50	45
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2768	2768	2768
5°	2761	2750	2754
10°	2739	2724	2742
15°	2703	2696	2731
20°	2662	2664	2719
25°	2610	2621	2703
30°	2545	2570	2691
35°	2467	2512	2672
40°	2387	2447	2651
45°	2294	2372	2615
50°	2189	2288	2569
55°	2092	2182	2505
60°	1964	2067	2415
65°	1818	1931	2294
70°	1610	1758	2120
75°	1391	1515	1862
80°	1101	1231	1456
85°	758	762	875

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2615 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	3.3
10°-20°	559.7	9.5
20°-30°	848.3	14.5
30°-40°	1020.5	17.4
40°-50°	1053.5	17.9
50°-60°	946.6	16.1
60°-70°	720.8	12.3
70°-80°	413.8	7.1
80°-90°	111.6	1.9
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°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1603.1	27.3
0°-40°	2623.6	44.7
0°-60°	4623.7	78.8
0°-90°	5870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2058	2058	2058	2058	2058	
5°	2052	2054	2052	2050	2054	195
15°	1962	1972	1981	1994	2004	554
25°	1792	1809	1838	1876	1892	825
35°	1546	1573	1624	1695	1722	968
45°	1256	1284	1357	1451	1489	969
55°	945	970	1048	1149	1195	843
65°	622	651	722	805	849	615
75°	309	338	388	443	470	328
85°	72	84	99	105	111	85
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2057.5	2057.5	2057.5	2057.5	2057.5
2.5°	2059.4	2059.4	2055.6	2053.7	2057.5
5°	2051.8	2053.7	2051.8	2049.9	2053.7
7.5°	2038.4	2040.3	2040.3	2042.3	2046.1
10°	2019.4	2023.2	2025.1	2030.8	2036.5
12.5°	1994.5	1998.4	2006.0	2015.5	2023.2
15°	1962.1	1971.6	1981.2	1994.5	2004.1
17.5°	1927.7	1939.2	1954.5	1971.6	1983.1
20°	1887.7	1901.0	1920.1	1943.0	1956.4
22.5°	1841.8	1859.0	1881.9	1910.6	1925.8
25°	1792.2	1809.4	1838.0	1876.2	1891.5
27.5°	1736.9	1756.0	1790.3	1834.2	1855.2
30°	1677.7	1698.7	1738.8	1792.2	1815.1
32.5°	1614.7	1637.6	1683.4	1744.5	1769.3
35°	1546.0	1572.7	1624.3	1694.9	1721.6
37.5°	1479.2	1505.9	1563.2	1639.5	1670.1
40°	1406.7	1435.3	1496.4	1580.4	1614.7
42.5°	1334.1	1359.0	1427.7	1517.4	1553.6
45°	1255.9	1284.5	1357.0	1450.6	1488.7
47.5°	1177.6	1208.2	1284.5	1380.0	1420.0
50°	1097.5	1129.9	1208.2	1305.5	1349.4
52.5°	1023.0	1049.8	1129.9	1229.2	1275.0
55°	944.8	969.6	1047.8	1149.0	1194.8
57.5°	862.7	891.3	969.6	1065.0	1110.8
60°	782.5	811.2	885.6	981.0	1026.9
62.5°	704.3	731.0	803.5	895.2	941.0
65°	622.2	650.8	721.5	805.4	849.3
67.5°	542.1	572.6	639.4	715.7	761.6
70°	456.2	490.5	555.4	626.0	662.3
72.5°	379.8	412.3	471.4	534.4	568.8
75°	309.2	337.8	387.5	442.8	469.5
77.5°	238.6	269.1	313.0	355.0	376.0
80°	175.6	204.2	238.6	267.2	276.8
82.5°	120.2	141.2	166.1	181.3	194.7
85°	72.5	84.0	99.2	105.0	110.7
87.5°	30.5	34.4	40.1	38.2	40.1
90°	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	14.14	15.79	14.51	16.10	16.41	15.61	17.25	15.97	17.57	17.88
	3H	15.71	17.20	16.09	17.52	17.88	17.51	19.00	17.89	19.32	19.68
	4H	16.23	17.63	16.63	17.98	18.35	18.21	19.61	18.61	19.96	20.33
	6H	16.56	17.86	16.97	18.22	18.61	18.71	20.00	19.12	20.37	20.76
	8H	16.64	17.88	17.06	18.27	18.67	18.85	20.09	19.27	20.48	20.88
	12H	16.68	17.87	17.11	18.25	18.68	18.93	20.12	19.36	20.50	20.93
4H	2H	14.90	16.30	15.29	16.64	17.02	16.07	17.47	16.46	17.81	18.19
	3H	16.66	17.84	17.07	18.24	18.64	18.18	19.36	18.59	19.75	20.15
	4H	17.29	18.35	17.72	18.76	19.20	19.01	20.08	19.45	20.49	20.93
	6H	17.72	18.65	18.17	19.09	19.55	19.64	20.57	20.09	21.01	21.46
	8H	17.84	18.71	18.30	19.15	19.61	19.83	20.70	20.29	21.14	21.60
	12H	17.90	18.69	18.38	19.16	19.63	19.94	20.73	20.42	21.20	21.67
8H	4H	17.67	18.54	18.13	18.98	19.45	19.21	20.08	19.67	20.52	20.99
	6H	18.21	18.93	18.70	19.42	19.89	19.93	20.66	20.43	21.14	21.62
	8H	18.38	19.03	18.88	19.53	20.02	20.18	20.83	20.69	21.33	21.82
	12H	18.49	19.06	18.99	19.55	20.11	20.35	20.93	20.86	21.42	21.98
12H	4H	17.72	18.50	18.20	18.98	19.45	19.22	20.00	19.70	20.47	20.94
	6H	18.28	18.93	18.79	19.44	19.92	19.95	20.60	20.46	21.11	21.59
	8H	18.50	19.07	19.01	19.56	20.12	20.24	20.82	20.75	21.31	21.87