

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: P572187

Luminaire Tested: 24ID-60-L850-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572187
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-L850-DBD
Description: 6000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

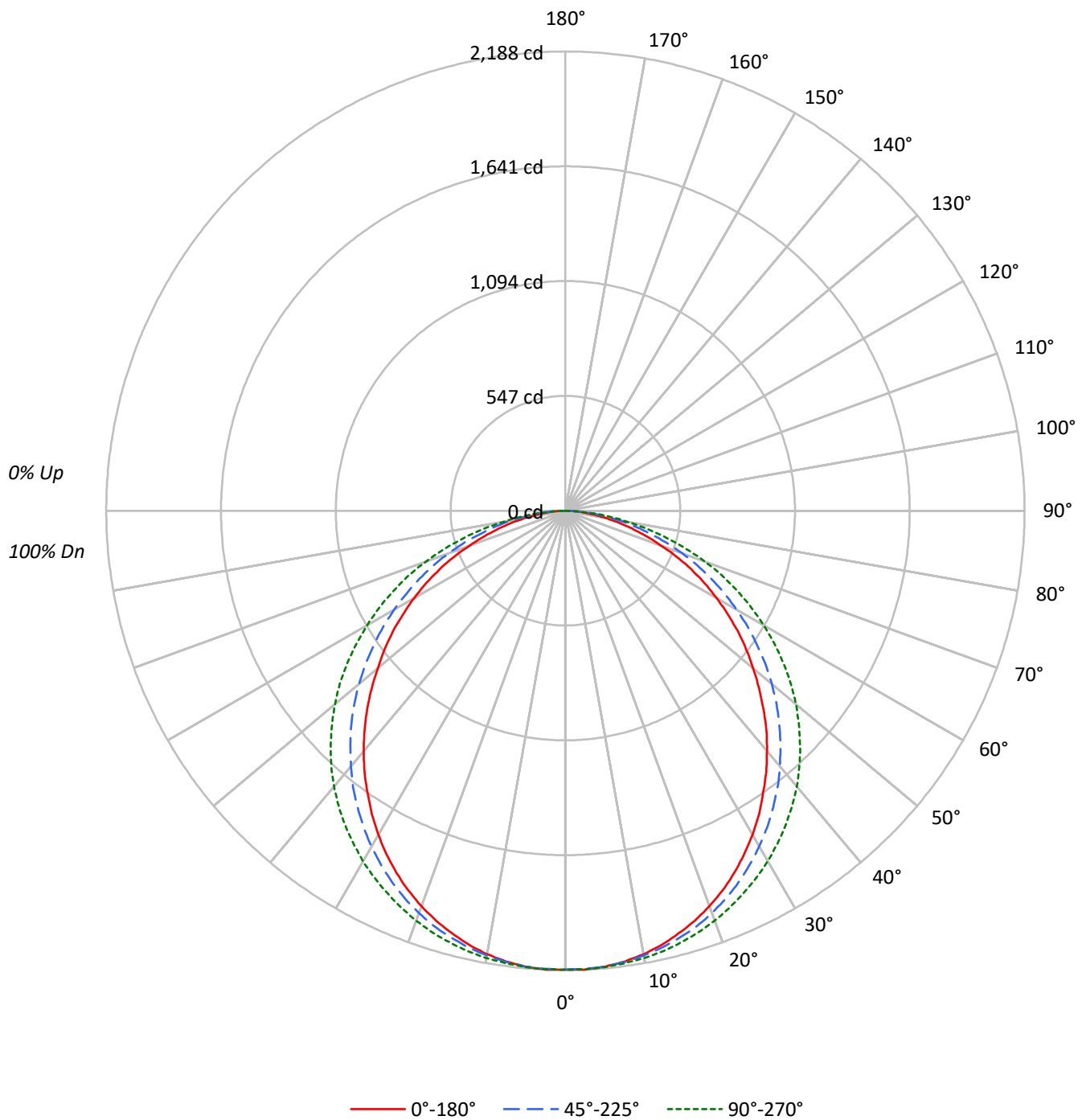
Lumens per Lamp: N/A
Luminaire Lumens: 6237.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

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		0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111			106	106	106		100
1	109	104	100	96	106	102	98	94	97	94	91			93	91	88		84
2	99	90	84	78	96	89	82	77	85	80	75			82	77	73		70
3	90	79	71	65	87	78	70	64	75	68	63			72	66	62		58
4	82	70	61	55	80	69	61	54	66	59	54			64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46			58	51	46		43
6	70	56	47	41	68	56	47	41	54	46	40			52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36			47	41	36		33
8	60	47	38	32	59	46	38	32	45	37	32			43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29			40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26			37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2942	2942	2942
5°	2934	2922	2926
10°	2910	2895	2914
15°	2872	2864	2901
20°	2829	2830	2889
25°	2773	2784	2872
30°	2704	2731	2859
35°	2622	2669	2839
40°	2536	2600	2816
45°	2438	2521	2778
50°	2325	2431	2730
55°	2223	2319	2661
60°	2087	2196	2566
65°	1932	2052	2438
70°	1711	1868	2252
75°	1478	1609	1978
80°	1169	1308	1547
85°	806	810	930

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2778 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	3.3
10°-20°	594.7	9.5
20°-30°	901.4	14.5
30°-40°	1084.3	17.4
40°-50°	1119.4	17.9
50°-60°	1005.8	16.1
60°-70°	765.8	12.3
70°-80°	439.7	7.1
80°-90°	118.6	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°	1703.3	27.3
0°-40°	2787.6	44.7
0°-60°	4912.8	78.8
0°-90°	6237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2186	2186	2186	2186	2186	
5°	2180	2182	2180	2178	2182	207
15°	2085	2095	2105	2119	2129	588
25°	1904	1922	1953	1994	2010	877
35°	1643	1671	1726	1801	1829	1028
45°	1334	1365	1442	1541	1582	1029
55°	1004	1030	1113	1221	1270	896
65°	661	692	767	856	902	654
75°	328	359	412	470	499	348
85°	77	89	106	112	118	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2186.2	2186.2	2186.2	2186.2	2186.2
2.5°	2188.2	2188.2	2184.1	2182.1	2186.2
5°	2180.1	2182.1	2180.1	2178.1	2182.1
7.5°	2165.9	2167.9	2167.9	2169.9	2174.0
10°	2145.6	2149.7	2151.7	2157.8	2163.9
12.5°	2119.2	2123.3	2131.4	2141.5	2149.7
15°	2084.8	2094.9	2105.0	2119.2	2129.4
17.5°	2048.3	2060.4	2076.7	2094.9	2107.1
20°	2005.7	2019.9	2040.1	2064.5	2078.7
22.5°	1957.0	1975.3	1999.6	2030.0	2046.2
25°	1904.3	1922.5	1952.9	1993.5	2009.7
27.5°	1845.5	1865.7	1902.2	1948.9	1971.2
30°	1782.6	1804.9	1847.5	1904.3	1928.6
32.5°	1715.7	1740.0	1788.7	1853.6	1879.9
35°	1642.7	1671.1	1725.8	1800.8	1829.2
37.5°	1571.7	1600.1	1660.9	1742.0	1774.5
40°	1494.6	1525.0	1589.9	1679.2	1715.7
42.5°	1417.6	1443.9	1516.9	1612.2	1650.8
45°	1334.4	1364.8	1441.9	1541.3	1581.8
47.5°	1251.3	1283.7	1364.8	1466.2	1508.8
50°	1166.1	1200.6	1283.7	1387.1	1433.8
52.5°	1087.0	1115.4	1200.6	1306.0	1354.7
55°	1003.9	1030.2	1113.4	1220.8	1269.5
57.5°	916.6	947.1	1030.2	1131.6	1180.3
60°	831.5	861.9	941.0	1042.4	1091.1
62.5°	748.3	776.7	853.8	951.1	999.8
65°	661.1	691.5	766.6	855.8	902.5
67.5°	575.9	608.4	679.4	760.5	809.2
70°	484.7	521.2	590.1	665.2	703.7
72.5°	403.6	438.0	500.9	567.8	604.3
75°	328.5	359.0	411.7	470.5	498.9
77.5°	253.5	285.9	332.6	377.2	399.5
80°	186.6	217.0	253.5	283.9	294.1
82.5°	127.8	150.1	176.4	192.7	206.9
85°	77.1	89.2	105.5	111.5	117.6
87.5°	32.4	36.5	42.6	40.6	42.6
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	14.35	16.00	14.72	16.31	16.63	15.82	17.46	16.19	17.78	18.09
	3H	15.92	17.41	16.30	17.73	18.09	17.72	19.21	18.10	19.53	19.89
	4H	16.44	17.84	16.84	18.19	18.56	18.42	19.82	18.82	20.17	20.55
	6H	16.77	18.07	17.18	18.43	18.82	18.92	20.22	19.33	20.58	20.97
	8H	16.85	18.09	17.28	18.48	18.88	19.06	20.30	19.48	20.69	21.09
	12H	16.89	18.08	17.32	18.46	18.89	19.14	20.33	19.57	20.71	21.14
4H	2H	15.11	16.51	15.50	16.85	17.23	16.28	17.68	16.67	18.02	18.40
	3H	16.87	18.05	17.28	18.45	18.85	18.39	19.57	18.80	19.96	20.36
	4H	17.50	18.56	17.93	18.97	19.41	19.22	20.29	19.66	20.70	21.14
	6H	17.93	18.86	18.39	19.30	19.76	19.85	20.78	20.30	21.22	21.67
	8H	18.05	18.92	18.51	19.36	19.82	20.04	20.91	20.50	21.35	21.81
	12H	18.11	18.90	18.59	19.37	19.84	20.15	20.94	20.63	21.41	21.88
8H	4H	17.88	18.75	18.34	19.19	19.66	19.42	20.29	19.88	20.73	21.20
	6H	18.42	19.14	18.91	19.63	20.11	20.14	20.87	20.64	21.36	21.83
	8H	18.59	19.24	19.09	19.74	20.23	20.39	21.04	20.90	21.55	22.03
	12H	18.70	19.27	19.21	19.76	20.32	20.56	21.14	21.07	21.63	22.19
12H	4H	17.93	18.71	18.41	19.19	19.66	19.43	20.21	19.91	20.69	21.15
	6H	18.49	19.14	19.00	19.65	20.13	20.16	20.81	20.67	21.32	21.80
	8H	18.71	19.28	19.22	19.78	20.33	20.45	21.03	20.96	21.52	22.08