

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: P572189

Luminaire Tested: 24ID-65-L830-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572189
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-65-L830-DBD
Description: 6500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

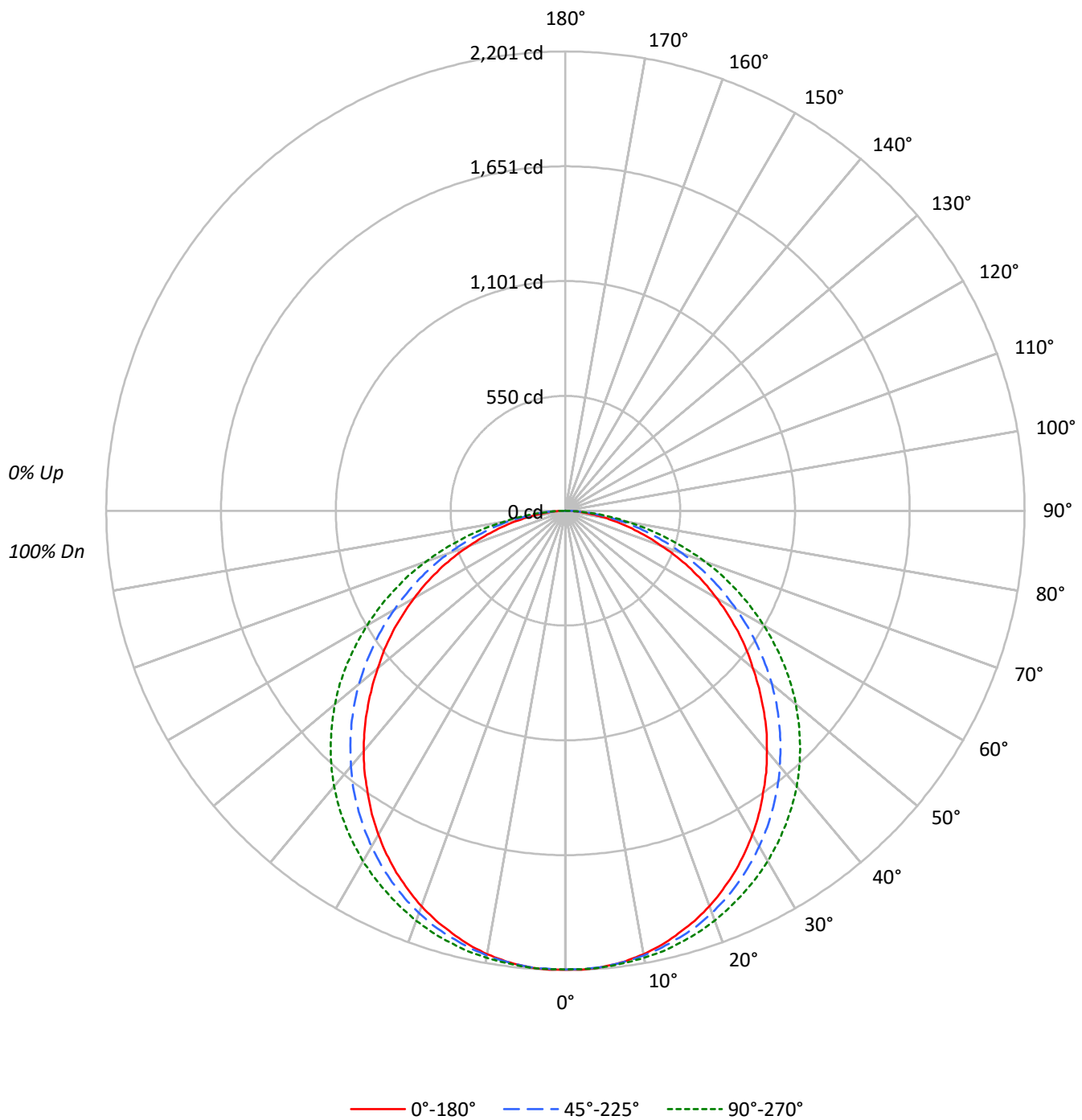
Lumens per Lamp: N/A
Luminaire Lumens: 6273.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 60.5
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	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	54		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		58	51	46		56
6	70	56	47	41	68	56	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2958	2958	2958
5°	2951	2939	2943
10°	2927	2911	2930
15°	2888	2881	2918
20°	2845	2846	2905
25°	2789	2801	2889
30°	2720	2747	2875
35°	2637	2685	2855
40°	2551	2615	2833
45°	2452	2535	2794
50°	2339	2445	2746
55°	2235	2332	2677
60°	2099	2209	2581
65°	1943	2063	2452
70°	1721	1879	2266
75°	1486	1619	1990
80°	1176	1316	1556
85°	810	815	935

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2794 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.4	3.3
10°-20°	598.1	9.5
20°-30°	906.6	14.5
30°-40°	1090.6	17.4
40°-50°	1125.9	17.9
50°-60°	1011.6	16.1
60°-70°	770.2	12.3
70°-80°	442.3	7.1
80°-90°	119.3	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°	1713.1	27.3
0°-40°	2803.7	44.7
0°-60°	4941.2	78.8
0°-90°	6273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2199	2199	2199	2199	2199	
5°	2193	2195	2193	2191	2195	208
15°	2097	2107	2117	2132	2142	592
25°	1915	1934	1964	2005	2021	882
35°	1652	1681	1736	1811	1840	1034
45°	1342	1373	1450	1550	1591	1035
55°	1010	1036	1120	1228	1277	901
65°	665	696	771	861	908	658
75°	330	361	414	473	502	350
85°	78	90	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°	2198.8	2198.8	2198.8	2198.8	2198.8
2.5°	2200.8	2200.8	2196.7	2194.7	2198.8
5°	2192.7	2194.7	2192.7	2190.6	2194.7
7.5°	2178.4	2180.4	2180.4	2182.5	2186.5
10°	2158.0	2162.1	2164.1	2170.2	2176.3
12.5°	2131.5	2135.6	2143.7	2153.9	2162.1
15°	2096.8	2107.0	2117.2	2131.5	2141.7
17.5°	2060.1	2072.3	2088.6	2107.0	2119.2
20°	2017.2	2031.5	2051.9	2076.4	2090.7
22.5°	1968.3	1986.7	2011.1	2041.7	2058.0
25°	1915.3	1933.6	1964.2	2005.0	2021.3
27.5°	1856.1	1876.5	1913.2	1960.1	1982.6
30°	1792.9	1815.3	1858.2	1915.3	1939.7
32.5°	1725.6	1750.1	1799.0	1864.3	1890.8
35°	1652.1	1680.7	1735.8	1811.2	1839.8
37.5°	1580.8	1609.3	1670.5	1752.1	1784.7
40°	1503.2	1533.8	1599.1	1688.9	1725.6
42.5°	1425.7	1452.3	1525.7	1621.6	1660.3
45°	1342.1	1372.7	1450.2	1550.2	1591.0
47.5°	1258.5	1291.1	1372.7	1474.7	1517.5
50°	1172.8	1207.5	1291.1	1395.1	1442.1
52.5°	1093.3	1121.8	1207.5	1313.6	1362.5
55°	1009.6	1036.2	1119.8	1227.9	1276.8
57.5°	921.9	952.5	1036.2	1138.1	1187.1
60°	836.3	866.9	946.4	1048.4	1097.4
62.5°	752.6	781.2	858.7	956.6	1005.6
65°	664.9	695.5	771.0	860.7	907.7
67.5°	579.3	611.9	683.3	764.9	813.8
70°	487.5	524.2	593.5	669.0	707.8
72.5°	405.9	440.6	503.8	571.1	607.8
75°	330.4	361.0	414.1	473.2	501.8
77.5°	255.0	287.6	334.5	379.4	401.8
80°	187.7	218.2	255.0	285.6	295.8
82.5°	128.5	150.9	177.5	193.8	208.0
85°	77.5	89.7	106.1	112.2	118.3
87.5°	32.6	36.7	42.8	40.8	42.8
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	14.37	16.02	14.74	16.33	16.64	15.84	17.48	16.21	17.80	18.11
	3H	15.94	17.43	16.32	17.75	18.11	17.74	19.23	18.12	19.55	19.91
	4H	16.46	17.86	16.86	18.21	18.58	18.44	19.84	18.84	20.19	20.57
	6H	16.79	18.09	17.20	18.45	18.84	18.94	20.24	19.35	20.60	20.99
	8H	16.87	18.11	17.30	18.50	18.90	19.08	20.32	19.50	20.71	21.11
	12H	16.91	18.10	17.34	18.48	18.91	19.16	20.35	19.59	20.73	21.16
4H	2H	15.13	16.53	15.52	16.87	17.25	16.30	17.70	16.69	18.04	18.42
	3H	16.89	18.07	17.30	18.47	18.87	18.41	19.59	18.82	19.98	20.38
	4H	17.52	18.58	17.95	18.99	19.43	19.24	20.31	19.68	20.72	21.16
	6H	17.95	18.88	18.41	19.32	19.78	19.87	20.80	20.32	21.24	21.69
	8H	18.07	18.94	18.53	19.38	19.84	20.06	20.93	20.52	21.37	21.83
	12H	18.13	18.92	18.61	19.39	19.86	20.17	20.96	20.65	21.43	21.90
8H	4H	17.90	18.77	18.36	19.21	19.68	19.44	20.31	19.90	20.75	21.22
	6H	18.44	19.16	18.93	19.65	20.13	20.16	20.89	20.66	21.38	21.85
	8H	18.61	19.26	19.11	19.76	20.25	20.41	21.06	20.92	21.57	22.05
	12H	18.72	19.29	19.23	19.78	20.34	20.58	21.16	21.09	21.65	22.21
12H	4H	17.95	18.73	18.43	19.21	19.68	19.45	20.23	19.93	20.71	21.17
	6H	18.51	19.16	19.02	19.67	20.15	20.18	20.83	20.69	21.34	21.82
	8H	18.73	19.30	19.24	19.79	20.35	20.47	21.05	20.98	21.54	22.10

END OF REPORT