

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: P572018

Luminaire Tested: 22ID-60-L850-DBD

Issue Date: 10/5/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P572018  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 221D-60-L850-DBD  
Description: 6000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

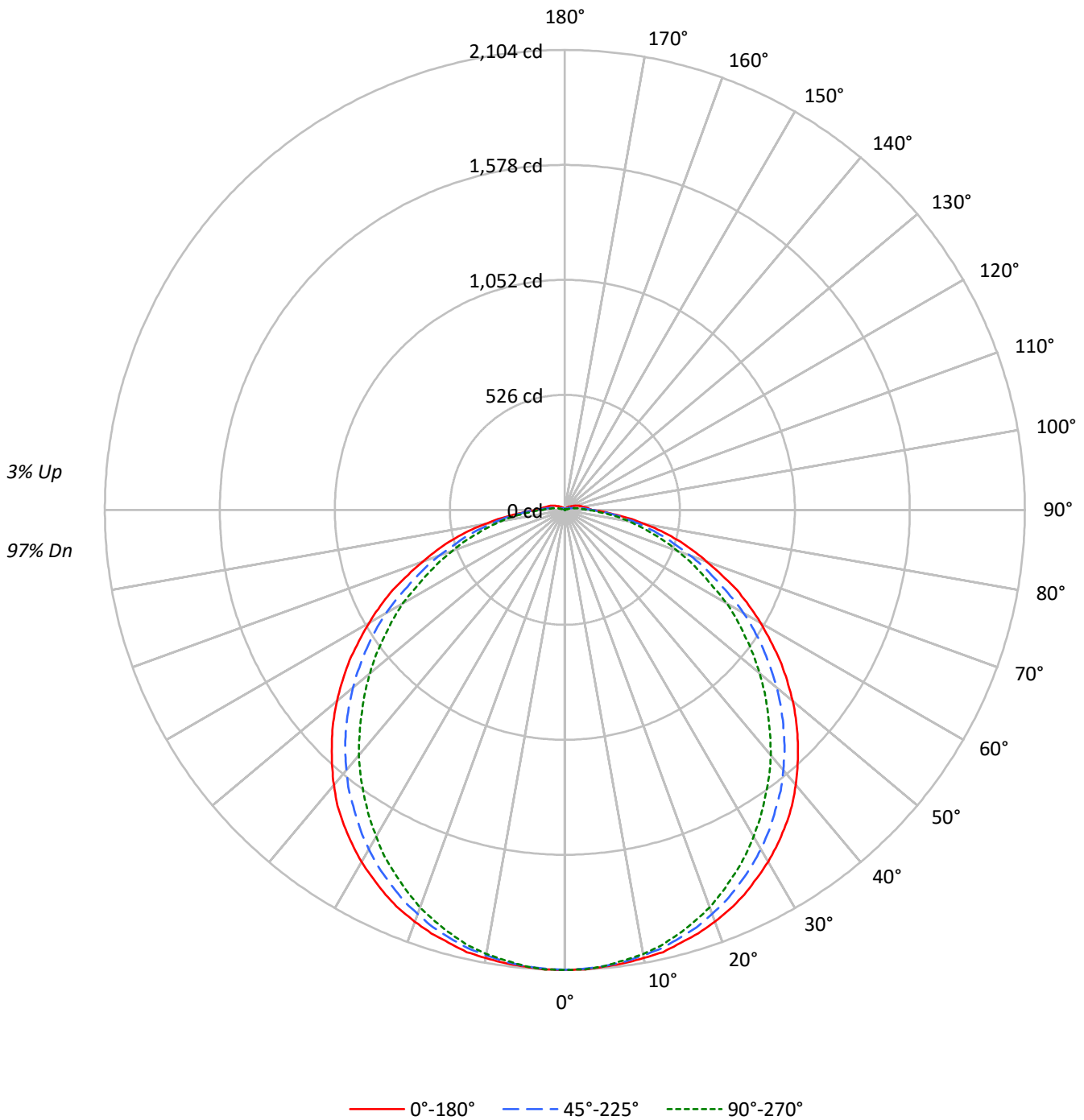
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6432.0 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 50.9  
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



TEST NUMBER: P572018  
CATALOG NUMBER: 22ID-60-L850-DBD

### Luminous Intensity Polar Plot





TEST NUMBER: P572018

CATALOG NUMBER: 22ID-60-L850-DBD

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	97				
1	107	102	98	93	104	100	95	92	95	91	88	90	88	85	86	84	82	80				
2	97	89	81	75	94	87	80	74	82	77	72	79	74	70	75	72	68	66				
3	89	78	69	62	86	76	68	62	72	66	60	69	64	59	66	62	58	55				
4	81	69	60	53	78	67	59	52	64	57	51	62	55	50	59	54	49	47				
5	74	61	52	45	72	60	51	45	58	50	44	55	49	43	53	47	43	41				
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	48	42	38	35				
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31				
8	59	46	37	31	57	45	37	31	43	36	30	42	35	30	40	34	30	28				
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27	25				
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5663	5663	5663
5°	5626	5601	5617
10°	5607	5539	5555
15°	5587	5477	5474
20°	5575	5403	5380
25°	5551	5314	5251
30°	5513	5216	5117
35°	5466	5093	4963
40°	5396	4969	4811
45°	5293	4815	4612
50°	5181	4644	4430
55°	5037	4442	4211
60°	4859	4220	4022
65°	4688	3894	3726
70°	4416	3627	3500
75°	4235	3328	3251
80°	3913	3041	3077
85°	3518	2760	2916

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5293 cd/sqm



TEST NUMBER: P572018

CATALOG NUMBER: 22ID-60-L850-DBD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.2	3.1
10°-20°	573.0	8.9
20°-30°	870.7	13.5
30°-40°	1051.2	16.3
40°-50°	1090.2	16.9
50°-60°	988.2	15.4
60°-70°	767.0	11.9
70°-80°	493.8	7.7
80°-90°	233.3	3.6
90°-100°	90.5	1.4
100°-110°	39.9	0.6
110°-120°	19.6	0.3
120°-130°	9.9	0.2
130°-140°	4.2	0.1
140°-150°	1.2	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1642.9	25.5
0°-40°	2694.0	41.9
0°-60°	4772.5	74.2
0°-90°	6266.6	97.4
90°-120°	150.1	2.3
90°-150°	165.3	2.6
90°-180°	165.0	2.6
0°-180°	6432.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2104	2104	2104	2104	2104	
5°	2098	2098	2095	2092	2095	200
15°	2050	2044	2028	2015	2009	580
25°	1942	1926	1888	1853	1837	895
35°	1761	1736	1678	1624	1599	1102
45°	1507	1481	1414	1345	1313	1163
55°	1202	1173	1106	1036	1004	1073
65°	868	830	766	715	690	855
75°	534	499	461	429	410	562
85°	222	222	210	197	184	213
90°	124	130	124	111	102	72
95°	102	86	80	73	67	79
105°	70	54	29	19	16	73
115°	41	35	19	3	0	42
125°	25	19	10	0	0	23
135°	13	10	3	0	0	10
145°	6	3	0	0	0	4
155°	0	0	0	0	0	0
165°	0	0	0	3	3	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P572018

CATALOG NUMBER: 22ID-60-L850-DBD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2104.3	2104.3	2104.3	2104.3	2104.3
2.5°	2104.3	2101.1	2101.1	2101.1	2104.3
5°	2097.9	2097.9	2094.7	2091.6	2094.7
7.5°	2091.6	2088.4	2085.2	2082.0	2078.8
10°	2082.0	2078.8	2069.3	2062.9	2062.9
12.5°	2072.5	2062.9	2053.4	2043.9	2040.7
15°	2050.2	2043.9	2028.0	2015.3	2008.9
17.5°	2031.2	2021.6	2002.6	1983.5	1973.9
20°	2005.7	1993.0	1967.6	1945.3	1935.8
22.5°	1977.1	1961.2	1932.6	1900.8	1888.1
25°	1942.2	1926.3	1888.1	1853.2	1837.3
27.5°	1900.8	1884.9	1843.6	1799.1	1786.4
30°	1859.5	1840.4	1792.8	1745.1	1726.0
32.5°	1811.8	1789.6	1738.7	1684.7	1665.6
35°	1761.0	1735.5	1678.3	1624.3	1598.9
37.5°	1706.9	1681.5	1621.1	1560.7	1535.3
40°	1643.4	1617.9	1554.4	1487.6	1465.4
42.5°	1576.6	1551.2	1487.6	1417.7	1389.1
45°	1506.7	1481.3	1414.5	1344.6	1312.8
47.5°	1436.8	1411.3	1341.4	1271.5	1239.7
50°	1360.5	1335.0	1265.1	1192.0	1163.4
52.5°	1281.0	1255.6	1185.6	1115.7	1087.1
55°	1201.5	1172.9	1106.2	1036.2	1004.5
57.5°	1115.7	1090.3	1026.7	960.0	931.3
60°	1033.1	1004.5	944.1	880.5	855.1
62.5°	950.4	918.6	855.1	791.5	766.1
65°	867.8	829.6	766.1	715.2	689.8
67.5°	775.6	740.6	689.8	638.9	619.8
70°	689.8	661.2	610.3	569.0	546.7
72.5°	613.5	578.5	530.8	499.0	480.0
75°	534.0	499.0	460.9	429.1	410.0
77.5°	451.4	422.8	391.0	368.7	349.7
80°	371.9	349.7	327.4	305.2	292.4
82.5°	292.4	279.7	267.0	251.1	238.4
85°	222.5	222.5	209.8	197.1	184.4
87.5°	165.3	168.5	162.1	149.4	139.9
90°	124.0	130.3	124.0	111.3	101.7
92.5°	111.3	104.9	98.5	92.2	82.6
95°	101.7	85.8	79.5	73.1	66.8
97.5°	92.2	73.1	63.6	57.2	50.9
100°	82.6	63.6	47.7	41.3	38.1
102.5°	76.3	60.4	38.1	28.6	28.6
105°	69.9	54.0	28.6	19.1	15.9
107.5°	60.4	47.7	25.4	12.7	9.5
110°	54.0	44.5	22.3	6.4	3.2



TEST NUMBER: P572018

CATALOG NUMBER: 22ID-60-L850-DBD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	47.7	38.1	22.3	6.4	0.0
115°	41.3	35.0	19.1	3.2	0.0
117.5°	38.1	28.6	15.9	3.2	0.0
120°	31.8	25.4	12.7	3.2	0.0
122.5°	28.6	22.3	12.7	3.2	0.0
125°	25.4	19.1	9.5	0.0	0.0
127.5°	22.3	15.9	9.5	0.0	0.0
130°	19.1	15.9	6.4	0.0	0.0
132.5°	15.9	12.7	6.4	0.0	0.0
135°	12.7	9.5	3.2	0.0	0.0
137.5°	9.5	9.5	3.2	0.0	0.0
140°	9.5	6.4	3.2	0.0	0.0
142.5°	6.4	6.4	0.0	0.0	0.0
145°	6.4	3.2	0.0	0.0	0.0
147.5°	3.2	3.2	0.0	0.0	0.0
150°	3.2	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°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	3.2	3.2
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	3.2
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	3.2	3.2	3.2
180°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P572018  
 CATALOG NUMBER: 22ID-60-L850-DBD

**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	17.53	19.13	17.93	19.50	19.88	16.57	18.18	16.98	18.55	18.93
	3H	19.42	20.87	19.83	21.25	21.68	18.31	19.77	18.73	20.15	20.57
	4H	20.20	21.58	20.64	21.98	22.41	19.01	20.38	19.44	20.78	21.22
	6H	20.85	22.13	21.30	22.54	23.00	19.60	20.88	20.05	21.29	21.75
	8H	21.10	22.32	21.56	22.76	23.22	19.83	21.06	20.30	21.50	21.96
	12H	21.30	22.47	21.77	22.91	23.40	20.04	21.21	20.51	21.65	22.14
4H	2H	18.02	19.40	18.46	19.80	20.24	17.26	18.64	17.70	19.04	19.48
	3H	20.14	21.31	20.59	21.75	22.22	19.22	20.39	19.67	20.83	21.30
	4H	21.07	22.13	21.54	22.59	23.08	20.05	21.11	20.52	21.57	22.07
	6H	21.87	22.80	22.36	23.29	23.80	20.78	21.71	21.27	22.20	22.71
	8H	22.18	23.06	22.68	23.55	24.07	21.08	21.95	21.58	22.44	22.97
	12H	22.46	23.25	22.98	23.77	24.30	21.35	22.14	21.87	22.66	23.19
8H	4H	21.34	22.21	21.83	22.70	23.22	20.44	21.32	20.94	21.81	22.33
	6H	22.28	23.01	22.81	23.54	24.08	21.32	22.05	21.85	22.59	23.12
	8H	22.69	23.35	23.23	23.90	24.44	21.72	22.38	22.26	22.93	23.47
	12H	23.08	23.67	23.63	24.20	24.82	22.10	22.68	22.64	23.22	23.83
12H	4H	21.37	22.16	21.89	22.68	23.21	20.51	21.30	21.03	21.82	22.34
	6H	22.34	23.00	22.88	23.55	24.09	21.42	22.09	21.97	22.63	23.18
	8H	22.82	23.41	23.36	23.94	24.55	21.89	22.48	22.44	23.02	23.63