

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: P572014

Luminaire Tested: 22ID-60-L840-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572014
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-L840-DBD
Description: 6000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

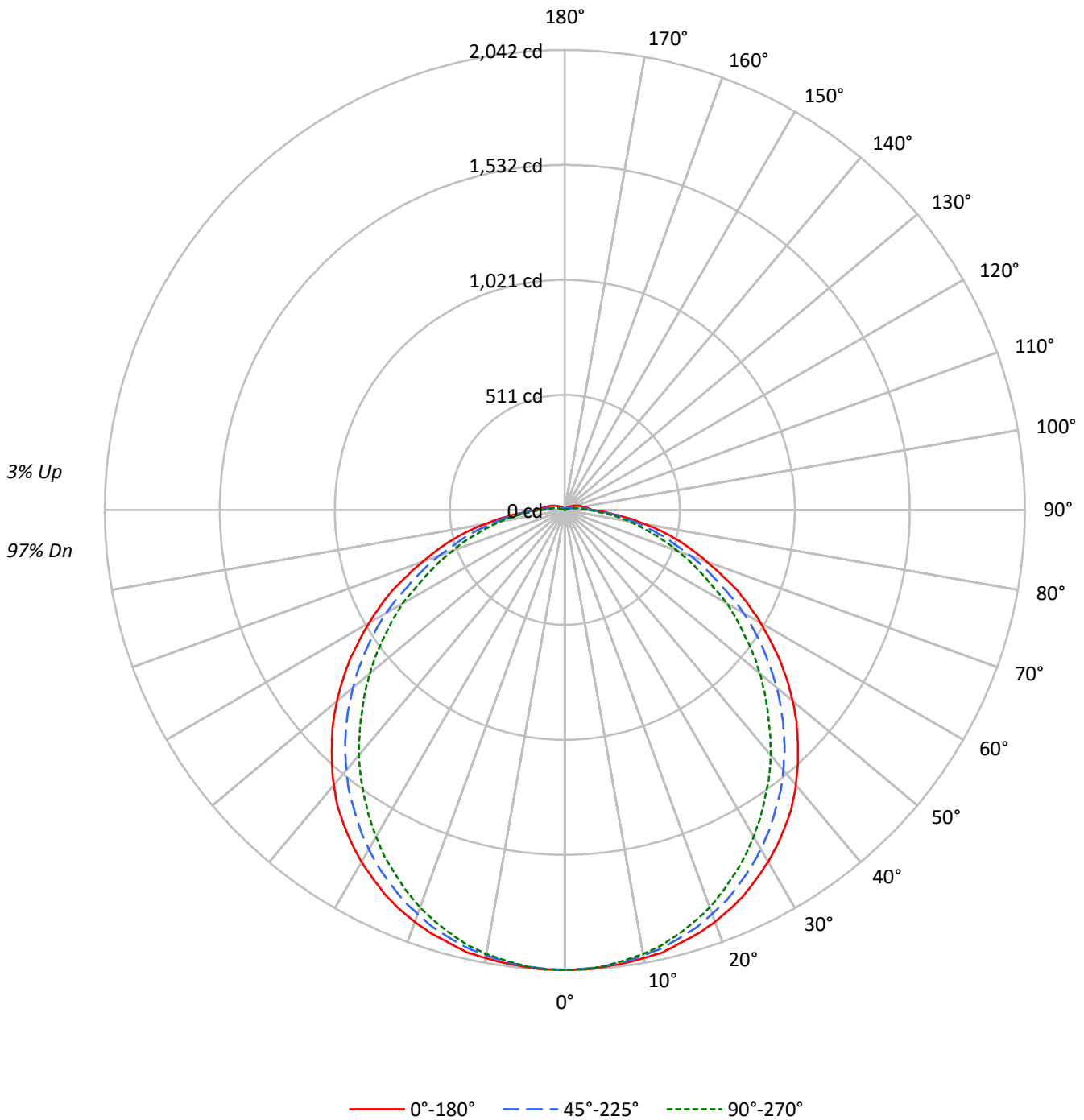
Lumens per Lamp: N/A
Luminaire Lumens: 6243.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

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: P572014
CATALOG NUMBER: 22ID-60-L840-DBD

Luminous Intensity Polar Plot





TEST NUMBER: P572014

CATALOG NUMBER: 22ID-60-L840-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°	5496	5496	5496
5°	5461	5436	5452
10°	5442	5376	5392
15°	5423	5316	5314
20°	5411	5244	5222
25°	5388	5158	5097
30°	5351	5062	4967
35°	5305	4943	4817
40°	5237	4823	4670
45°	5137	4674	4476
50°	5029	4507	4300
55°	4889	4312	4087
60°	4716	4095	3903
65°	4550	3779	3617
70°	4286	3521	3397
75°	4110	3231	3156
80°	3799	2952	2986
85°	3415	2678	2829

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5137 cd/sqm



TEST NUMBER: P572014

CATALOG NUMBER: 22ID-60-L840-DBD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	3.1
10°-20°	556.1	8.9
20°-30°	845.1	13.5
30°-40°	1020.3	16.3
40°-50°	1058.1	16.9
50°-60°	959.2	15.4
60°-70°	744.4	11.9
70°-80°	479.3	7.7
80°-90°	226.4	3.6
90°-100°	87.9	1.4
100°-110°	38.8	0.6
110°-120°	19.0	0.3
120°-130°	9.6	0.2
130°-140°	4.1	0.1
140°-150°	1.1	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1594.6	25.5
0°-40°	2614.9	41.9
0°-60°	4632.2	74.2
0°-90°	6082.4	97.4
90°-120°	145.6	2.3
90°-150°	160.5	2.6
90°-180°	161.0	2.6
0°-180°	6243.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2042	2042	2042	2042	2042	
5°	2036	2036	2033	2030	2033	194
15°	1990	1984	1968	1956	1950	563
25°	1885	1870	1833	1799	1783	869
35°	1709	1684	1629	1577	1552	1069
45°	1462	1438	1373	1305	1274	1129
55°	1166	1138	1074	1006	975	1041
65°	842	805	744	694	670	830
75°	518	484	447	416	398	546
85°	216	216	204	191	179	207
90°	120	126	120	108	99	70
95°	99	83	77	71	65	77
105°	68	52	28	18	15	71
115°	40	34	18	3	0	41
125°	25	18	9	0	0	22
135°	12	9	3	0	0	10
145°	6	3	0	0	0	3
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: P572014

CATALOG NUMBER: 22ID-60-L840-DBD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2042.4	2042.4	2042.4	2042.4	2042.4
2.5°	2042.4	2039.3	2039.3	2039.3	2042.4
5°	2036.3	2036.3	2033.2	2030.1	2033.2
7.5°	2030.1	2027.0	2023.9	2020.8	2017.8
10°	2020.8	2017.8	2008.5	2002.3	2002.3
12.5°	2011.6	2002.3	1993.1	1983.8	1980.7
15°	1990.0	1983.8	1968.4	1956.0	1949.9
17.5°	1971.5	1962.2	1943.7	1925.2	1915.9
20°	1946.8	1934.5	1909.8	1888.2	1878.9
22.5°	1919.0	1903.6	1875.8	1845.0	1832.6
25°	1885.1	1869.7	1832.6	1798.7	1783.3
27.5°	1845.0	1829.6	1789.4	1746.3	1733.9
30°	1804.9	1786.4	1740.1	1693.8	1675.3
32.5°	1758.6	1737.0	1687.6	1635.2	1616.7
35°	1709.2	1684.5	1629.0	1576.6	1551.9
37.5°	1656.8	1632.1	1573.5	1514.9	1490.2
40°	1595.1	1570.4	1508.7	1443.9	1422.3
42.5°	1530.3	1505.6	1443.9	1376.0	1348.3
45°	1462.4	1437.7	1372.9	1305.1	1274.2
47.5°	1394.5	1369.9	1302.0	1234.1	1203.2
50°	1320.5	1295.8	1227.9	1157.0	1129.2
52.5°	1243.4	1218.7	1150.8	1082.9	1055.2
55°	1166.2	1138.5	1073.7	1005.8	974.9
57.5°	1082.9	1058.2	996.5	931.7	904.0
60°	1002.7	974.9	916.3	854.6	829.9
62.5°	922.5	891.6	829.9	768.2	743.5
65°	842.3	805.3	743.5	694.2	669.5
67.5°	752.8	718.9	669.5	620.1	601.6
70°	669.5	641.7	592.4	552.3	530.7
72.5°	595.5	561.5	515.2	484.4	465.9
75°	518.3	484.4	447.4	416.5	398.0
77.5°	438.1	410.3	379.5	357.9	339.4
80°	361.0	339.4	317.8	296.2	283.8
82.5°	283.8	271.5	259.2	243.7	231.4
85°	216.0	216.0	203.6	191.3	178.9
87.5°	160.4	163.5	157.3	145.0	135.8
90°	120.3	126.5	120.3	108.0	98.7
92.5°	108.0	101.8	95.6	89.5	80.2
95°	98.7	83.3	77.1	71.0	64.8
97.5°	89.5	71.0	61.7	55.5	49.4
100°	80.2	61.7	46.3	40.1	37.0
102.5°	74.0	58.6	37.0	27.8	27.8
105°	67.9	52.4	27.8	18.5	15.4
107.5°	58.6	46.3	24.7	12.3	9.3
110°	52.4	43.2	21.6	6.2	3.1



TEST NUMBER: P572014

CATALOG NUMBER: 22ID-60-L840-DBD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.3	37.0	21.6	6.2	0.0
115°	40.1	33.9	18.5	3.1	0.0
117.5°	37.0	27.8	15.4	3.1	0.0
120°	30.9	24.7	12.3	3.1	0.0
122.5°	27.8	21.6	12.3	3.1	0.0
125°	24.7	18.5	9.3	0.0	0.0
127.5°	21.6	15.4	9.3	0.0	0.0
130°	18.5	15.4	6.2	0.0	0.0
132.5°	15.4	12.3	6.2	0.0	0.0
135°	12.3	9.3	3.1	0.0	0.0
137.5°	9.3	9.3	3.1	0.0	0.0
140°	9.3	6.2	3.1	0.0	0.0
142.5°	6.2	6.2	0.0	0.0	0.0
145°	6.2	3.1	0.0	0.0	0.0
147.5°	3.1	3.1	0.0	0.0	0.0
150°	3.1	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	3.1	3.1
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	3.1
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	3.1	3.1	3.1
180°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P572014
 CATALOG NUMBER: 22ID-60-L840-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	17.42	19.03	17.83	19.40	19.78	16.47	18.07	16.87	18.44	18.82
	3H	19.31	20.77	19.73	21.15	21.57	18.21	19.66	18.62	20.04	20.47
	4H	20.09	21.47	20.53	21.87	22.31	18.90	20.28	19.34	20.68	21.12
	6H	20.74	22.02	21.20	22.44	22.89	19.49	20.77	19.94	21.19	21.64
	8H	20.99	22.22	21.46	22.66	23.12	19.73	20.95	20.19	21.39	21.85
	12H	21.20	22.37	21.67	22.80	23.29	19.93	21.11	20.40	21.54	22.03
4H	2H	17.92	19.30	18.36	19.70	20.13	17.16	18.54	17.60	18.94	19.37
	3H	20.04	21.20	20.49	21.65	22.11	19.12	20.28	19.57	20.73	21.19
	4H	20.96	22.02	21.43	22.48	22.98	19.95	21.01	20.42	21.47	21.96
	6H	21.76	22.70	22.26	23.18	23.70	20.67	21.61	21.17	22.09	22.61
	8H	22.08	22.95	22.58	23.44	23.97	20.97	21.85	21.47	22.34	22.86
	12H	22.36	23.15	22.88	23.67	24.20	21.24	22.03	21.76	22.55	23.08
8H	4H	21.23	22.11	21.73	22.59	23.12	20.34	21.21	20.84	21.70	22.23
	6H	22.17	22.91	22.70	23.44	23.97	21.22	21.95	21.75	22.48	23.01
	8H	22.59	23.25	23.13	23.80	24.34	21.61	22.27	22.16	22.82	23.37
	12H	22.98	23.57	23.52	24.10	24.72	21.99	22.58	22.54	23.11	23.73
12H	4H	21.26	22.05	21.78	22.57	23.10	20.40	21.19	20.92	21.71	22.24
	6H	22.23	22.90	22.78	23.45	23.99	21.32	21.98	21.86	22.53	23.07
	8H	22.71	23.30	23.26	23.84	24.45	21.79	22.38	22.33	22.91	23.53