

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: P572050

Luminaire Tested: 22ID-70-L850-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572050
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: 22ID-70-L850-DBD
Description: 7000 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: 7505.0 lumens
Efficiency: N/A
Efficacy: 122.8 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

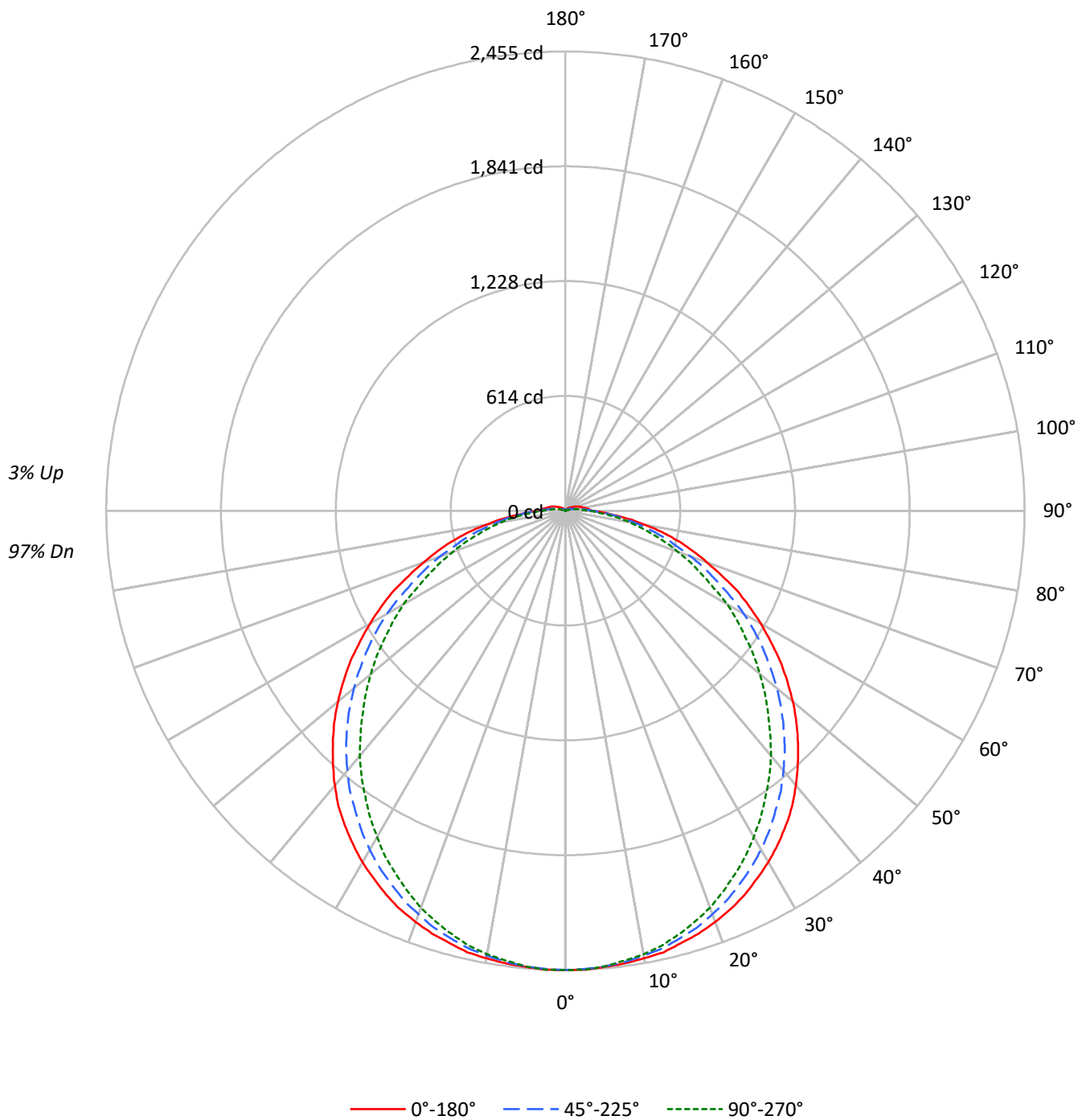
Input Watts (W): 61.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P572050

CATALOG NUMBER: 22ID-70-L850-DBD

Luminous Intensity Polar Plot



TEST NUMBER: P572050

CATALOG NUMBER: 22ID-70-L850-DBD

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6607	6607	6607
5°	6565	6535	6555
10°	6542	6463	6482
15°	6519	6390	6388
20°	6505	6304	6278
25°	6477	6201	6127
30°	6432	6086	5970
35°	6378	5943	5791
40°	6296	5798	5614
45°	6176	5619	5381
50°	6045	5419	5170
55°	5878	5183	4914
60°	5669	4923	4692
65°	5469	4543	4347
70°	5152	4232	4084
75°	4941	3883	3795
80°	4566	3548	3590
85°	4105	3220	3401

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6176 cd/sqm

TEST NUMBER: P572050

CATALOG NUMBER: 22ID-70-L850-DBD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.5	3.1
10°-20°	668.5	8.9
20°-30°	1015.9	13.5
30°-40°	1226.5	16.3
40°-50°	1272.0	16.9
50°-60°	1153.1	15.4
60°-70°	894.9	11.9
70°-80°	576.2	7.7
80°-90°	272.2	3.6
90°-100°	105.6	1.4
100°-110°	46.6	0.6
110°-120°	22.9	0.3
120°-130°	11.5	0.2
130°-140°	4.9	0.1
140°-150°	1.3	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1916.9	25.5
0°-40°	3143.5	41.9
0°-60°	5568.6	74.2
0°-90°	7311.9	97.4
90°-120°	175.1	2.3
90°-150°	192.9	2.6
90°-180°	193.0	2.6
0°-180°	7505.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2455	2455	2455	2455	2455	
5°	2448	2448	2444	2440	2444	233
15°	2392	2385	2366	2352	2344	677
25°	2266	2248	2203	2162	2144	1044
35°	2055	2025	1958	1895	1866	1285
45°	1758	1728	1650	1569	1532	1357
55°	1402	1369	1291	1209	1172	1252
65°	1012	968	894	834	805	998
75°	623	582	538	501	478	656
85°	260	260	245	230	215	249
90°	145	152	145	130	119	84
95°	119	100	93	85	78	92
105°	82	63	33	22	18	85
115°	48	41	22	4	0	49
125°	30	22	11	0	0	27
135°	15	11	4	0	0	12
145°	7	4	0	0	0	4
155°	0	0	0	0	0	0
165°	0	0	0	4	4	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

TEST NUMBER: P572050

CATALOG NUMBER: 22ID-70-L850-DBD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2455.3	2455.3	2455.3	2455.3	2455.3
2.5°	2455.3	2451.6	2451.6	2451.6	2455.3
5°	2447.9	2447.9	2444.2	2440.5	2444.2
7.5°	2440.5	2436.8	2433.1	2429.3	2425.6
10°	2429.3	2425.6	2414.5	2407.1	2407.1
12.5°	2418.2	2407.1	2396.0	2384.8	2381.1
15°	2392.3	2384.8	2366.3	2351.5	2344.0
17.5°	2370.0	2358.9	2336.6	2314.4	2303.2
20°	2340.3	2325.5	2295.8	2269.9	2258.7
22.5°	2306.9	2288.4	2255.0	2217.9	2203.1
25°	2266.2	2247.6	2203.1	2162.3	2143.8
27.5°	2217.9	2199.4	2151.2	2099.2	2084.4
30°	2169.7	2147.5	2091.8	2036.2	2013.9
32.5°	2114.1	2088.1	2028.8	1965.7	1943.5
35°	2054.7	2025.1	1958.3	1895.3	1865.6
37.5°	1991.7	1962.0	1891.5	1821.1	1791.4
40°	1917.5	1887.8	1813.7	1735.8	1709.8
42.5°	1839.6	1810.0	1735.8	1654.2	1620.8
45°	1758.0	1728.4	1650.5	1568.9	1531.8
47.5°	1676.4	1646.8	1565.2	1483.6	1446.5
50°	1587.4	1557.7	1476.2	1390.8	1357.5
52.5°	1494.7	1465.0	1383.4	1301.8	1268.5
55°	1402.0	1368.6	1290.7	1209.1	1172.0
57.5°	1301.8	1272.2	1198.0	1120.1	1086.7
60°	1205.4	1172.0	1101.5	1027.4	997.7
62.5°	1109.0	1071.9	997.7	923.5	893.9
65°	1012.5	968.0	893.9	834.5	804.8
67.5°	905.0	864.2	804.8	745.5	723.2
70°	804.8	771.5	712.1	663.9	637.9
72.5°	715.8	675.0	619.4	582.3	560.0
75°	623.1	582.3	537.8	500.7	478.5
77.5°	526.7	493.3	456.2	430.2	408.0
80°	433.9	408.0	382.0	356.1	341.2
82.5°	341.2	326.4	311.5	293.0	278.2
85°	259.6	259.6	244.8	230.0	215.1
87.5°	192.9	196.6	189.2	174.3	163.2
90°	144.6	152.1	144.6	129.8	118.7
92.5°	129.8	122.4	115.0	107.6	96.4
95°	118.7	100.1	92.7	85.3	77.9
97.5°	107.6	85.3	74.2	66.8	59.3
100°	96.4	74.2	55.6	48.2	44.5
102.5°	89.0	70.5	44.5	33.4	33.4
105°	81.6	63.1	33.4	22.3	18.5
107.5°	70.5	55.6	29.7	14.8	11.1
110°	63.1	51.9	26.0	7.4	3.7

TEST NUMBER: P572050

CATALOG NUMBER: 22ID-70-L850-DBD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	55.6	44.5	26.0	7.4	0.0
115°	48.2	40.8	22.3	3.7	0.0
117.5°	44.5	33.4	18.5	3.7	0.0
120°	37.1	29.7	14.8	3.7	0.0
122.5°	33.4	26.0	14.8	3.7	0.0
125°	29.7	22.3	11.1	0.0	0.0
127.5°	26.0	18.5	11.1	0.0	0.0
130°	22.3	18.5	7.4	0.0	0.0
132.5°	18.5	14.8	7.4	0.0	0.0
135°	14.8	11.1	3.7	0.0	0.0
137.5°	11.1	11.1	3.7	0.0	0.0
140°	11.1	7.4	3.7	0.0	0.0
142.5°	7.4	7.4	0.0	0.0	0.0
145°	7.4	3.7	0.0	0.0	0.0
147.5°	3.7	3.7	0.0	0.0	0.0
150°	3.7	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	3.7	3.7
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	3.7
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	3.7	3.7	3.7
180°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P572050

CATALOG NUMBER: 22ID-70-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	18.06	19.67	18.47	20.04	20.42	17.11	18.71	17.51	19.08	19.46
	3H	19.95	21.41	20.37	21.79	22.21	18.85	20.30	19.26	20.68	21.11
	4H	20.73	22.11	21.17	22.51	22.95	19.54	20.92	19.98	21.32	21.76
	6H	21.38	22.66	21.84	23.08	23.53	20.13	21.41	20.58	21.83	22.28
	8H	21.63	22.86	22.10	23.30	23.76	20.37	21.59	20.83	22.03	22.49
	12H	21.84	23.01	22.31	23.44	23.93	20.57	21.75	21.04	22.18	22.67
4H	2H	18.56	19.94	19.00	20.34	20.77	17.80	19.18	18.24	19.58	20.01
	3H	20.68	21.84	21.13	22.29	22.75	19.76	20.92	20.21	21.37	21.83
	4H	21.60	22.66	22.07	23.12	23.62	20.59	21.64	21.06	22.11	22.60
	6H	22.40	23.34	22.90	23.82	24.34	21.31	22.25	21.81	22.73	23.25
	8H	22.72	23.59	23.22	24.08	24.61	21.61	22.49	22.11	22.98	23.50
	12H	23.00	23.79	23.52	24.31	24.84	21.88	22.67	22.40	23.19	23.72
8H	4H	21.87	22.75	22.37	23.23	23.76	20.98	21.85	21.48	22.34	22.87
	6H	22.81	23.55	23.34	24.08	24.61	21.85	22.59	22.39	23.12	23.65
	8H	23.23	23.89	23.77	24.44	24.98	22.25	22.91	22.80	23.46	24.01
	12H	23.62	24.21	24.16	24.74	25.36	22.63	23.22	23.18	23.75	24.37
12H	4H	21.90	22.69	22.42	23.21	23.74	21.04	21.83	21.56	22.35	22.88
	6H	22.87	23.54	23.42	24.09	24.63	21.96	22.62	22.50	23.17	23.71
	8H	23.35	23.94	23.90	24.48	25.09	22.43	23.02	22.97	23.55	24.17