

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P384657

Luminaire Tested: **22ID-70-L850-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-70-L850-CFD3
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

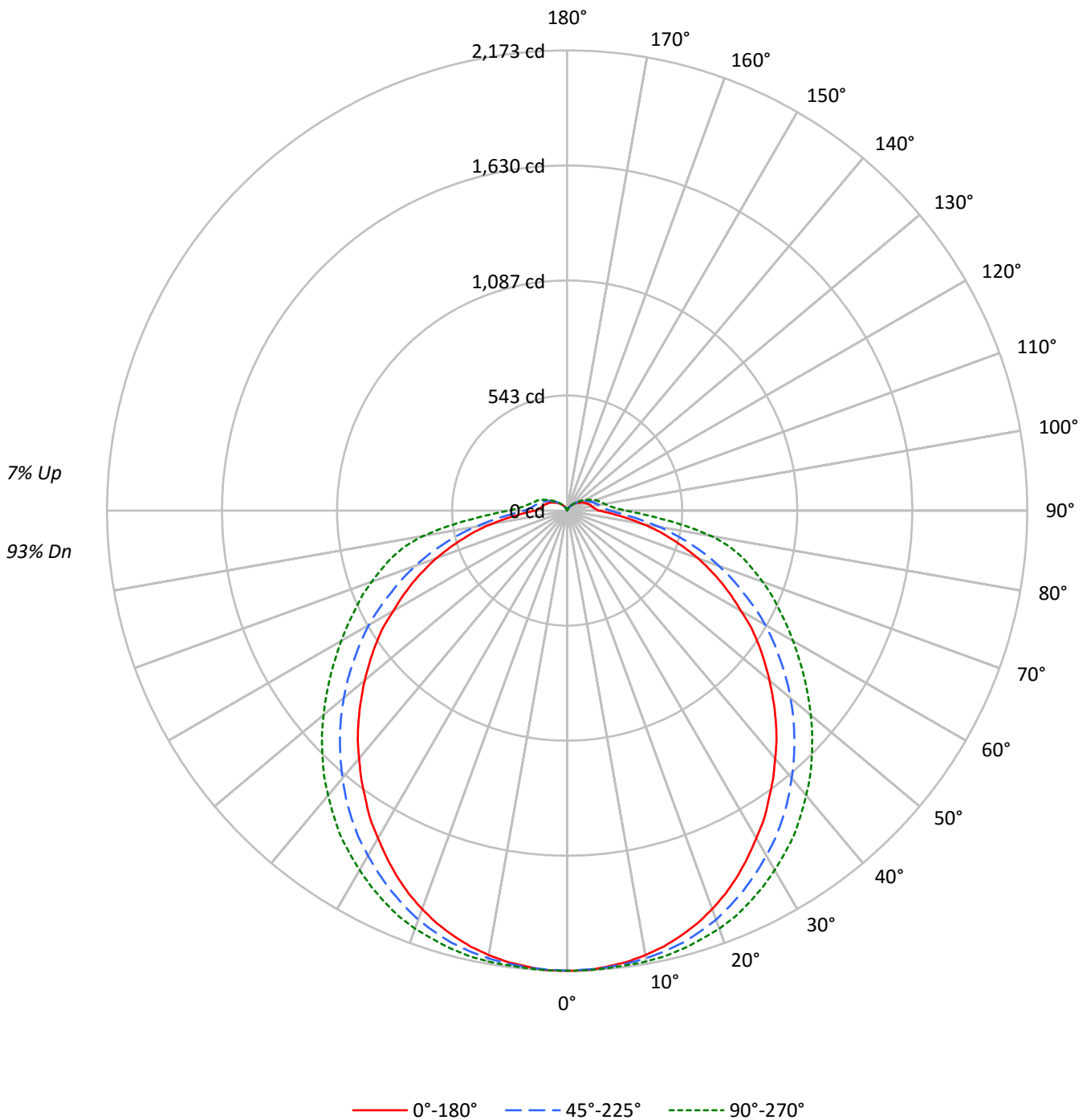
Lumens per Lamp: N/A
Luminaire Lumens: 7603.8 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')
CIE Type: Direct

Input Watts (W): 61.8
Input Voltage (V): NR
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: 25 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5847	5847	5847
5°	5776	5760	5796
10°	5698	5688	5779
15°	5602	5618	5765
20°	5484	5530	5754
25°	5341	5419	5724
30°	5176	5303	5682
35°	5017	5188	5647
40°	4859	5046	5582
45°	4708	4906	5529
50°	4546	4760	5472
55°	4393	4603	5435
60°	4194	4453	5452
65°	4037	4237	5541
70°	3842	4036	5752
75°	3576	3754	6076
80°	3267	3404	6259
85°	2940	2985	5641



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.0	2.7
10°-20°	595.4	7.8
20°-30°	909.6	12.0
30°-40°	1107.3	14.6
40°-50°	1170.3	15.4
50°-60°	1104.7	14.5
60°-70°	929.4	12.2
70°-80°	670.1	8.8
80°-90°	353.4	4.6
90°-100°	189.2	2.5
100°-110°	143.7	1.9
110°-120°	104.2	1.4
120°-130°	65.4	0.9
130°-140°	35.4	0.5
140°-150°	15.4	0.2
150°-160°	4.1	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1711.0	22.5
0°-40°	2818.3	37.1
0°-60°	5093.4	67.0
0°-90°	7046.3	92.7
90°-120°	437.0	5.7
90°-150°	553.2	7.3
90°-180°	557.0	7.3
0°-180°	7603.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2173	2173	2173	2173	2173	
5°	2162	2162	2165	2165	2169	205
15°	2078	2086	2112	2127	2139	586
25°	1904	1926	1976	2021	2040	877
35°	1661	1699	1775	1843	1870	1040
45°	1392	1433	1517	1600	1634	1074
55°	1104	1153	1229	1320	1365	986
65°	804	849	918	1032	1104	795
75°	504	546	599	717	857	535
85°	231	262	292	364	444	217
90°	148	174	201	239	273	85
95°	129	148	171	193	209	103
105°	110	121	136	152	159	115
115°	87	95	106	114	121	88
125°	64	64	76	76	80	58
135°	46	42	46	46	49	34
145°	26	23	23	23	26	17
155°	11	11	4	8	11	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2172.9	2172.9	2172.9	2172.9	2172.9
2.5°	2172.9	2169.1	2169.1	2169.1	2172.9
5°	2161.5	2161.5	2165.3	2165.3	2169.1
7.5°	2150.1	2150.1	2157.7	2161.5	2165.3
10°	2131.2	2135.0	2146.4	2153.9	2161.5
12.5°	2108.4	2112.2	2131.2	2146.4	2153.9
15°	2078.1	2085.7	2112.2	2127.4	2138.8
17.5°	2044.0	2055.3	2085.7	2108.4	2119.8
20°	2002.3	2017.4	2055.3	2085.7	2100.8
22.5°	1956.7	1971.9	2017.4	2055.3	2074.3
25°	1903.7	1926.4	1975.7	2021.2	2040.2
27.5°	1846.8	1873.3	1930.2	1983.3	2002.3
30°	1786.1	1816.4	1880.9	1937.8	1960.5
32.5°	1729.2	1759.6	1831.6	1892.3	1915.0
35°	1661.0	1698.9	1774.7	1843.0	1869.5
37.5°	1596.5	1634.4	1714.0	1786.1	1812.6
40°	1528.2	1566.2	1649.6	1729.2	1755.8
42.5°	1463.8	1501.7	1585.1	1668.5	1698.9
45°	1391.7	1433.4	1516.9	1600.3	1634.4
47.5°	1319.7	1361.4	1448.6	1535.8	1569.9
50°	1247.6	1293.1	1376.5	1463.8	1501.7
52.5°	1175.6	1221.1	1304.5	1395.5	1433.4
55°	1103.5	1152.8	1228.7	1319.7	1365.2
57.5°	1031.5	1080.8	1156.6	1251.4	1296.9
60°	948.0	1004.9	1080.8	1179.4	1232.4
62.5°	876.0	925.3	1001.1	1103.5	1168.0
65°	803.9	849.4	917.7	1031.5	1103.5
67.5°	728.1	777.4	841.9	948.0	1046.6
70°	656.0	697.8	762.2	872.2	982.2
72.5°	580.2	621.9	682.6	796.3	917.7
75°	504.4	546.1	599.2	716.7	857.0
77.5°	436.1	470.2	519.5	633.3	785.0
80°	360.3	394.4	439.9	542.3	690.2
82.5°	292.0	322.3	360.3	451.3	568.8
85°	231.3	261.7	292.0	364.0	443.7
87.5°	185.8	208.6	238.9	292.0	345.1
90°	147.9	174.4	201.0	238.9	273.0
92.5°	136.5	159.3	182.0	212.4	235.1
95°	128.9	147.9	170.6	193.4	208.6
97.5°	121.3	140.3	159.3	182.0	193.4
100°	117.6	132.7	151.7	170.6	178.2
102.5°	113.8	125.1	144.1	159.3	170.6
105°	110.0	121.3	136.5	151.7	159.3
107.5°	102.4	113.8	128.9	144.1	151.7
110°	98.6	106.2	121.3	132.7	144.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.8	102.4	113.8	125.1	132.7
115°	87.2	94.8	106.2	113.8	121.3
117.5°	83.4	87.2	98.6	102.4	110.0
120°	75.8	79.6	91.0	94.8	98.6
122.5°	68.3	72.1	83.4	83.4	91.0
125°	64.5	64.5	75.8	75.8	79.6
127.5°	60.7	60.7	68.3	68.3	72.1
130°	53.1	53.1	60.7	60.7	60.7
132.5°	49.3	45.5	53.1	53.1	56.9
135°	45.5	41.7	45.5	45.5	49.3
137.5°	37.9	37.9	41.7	37.9	41.7
140°	34.1	30.3	34.1	34.1	37.9
142.5°	30.3	26.5	30.3	26.5	30.3
145°	26.5	22.8	22.8	22.8	26.5
147.5°	22.8	19.0	19.0	19.0	22.8
150°	19.0	15.2	15.2	15.2	19.0
152.5°	15.2	11.4	7.6	11.4	15.2
155°	11.4	11.4	3.8	7.6	11.4
157.5°	7.6	7.6	0.0	3.8	7.6
160°	3.8	3.8	0.0	3.8	3.8
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
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	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	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	16.36	17.89	16.83	18.36	18.85	17.49	19.02	17.96	19.49	19.98
	3H	18.25	19.65	18.74	20.12	20.66	19.82	21.22	20.31	21.69	22.22
	4H	19.02	20.34	19.52	20.83	21.38	20.92	22.24	21.43	22.73	23.28
	6H	19.65	20.88	20.17	21.38	21.95	21.96	23.19	22.48	23.70	24.26
	8H	19.88	21.07	20.42	21.59	22.16	22.38	23.56	22.92	24.09	24.66
	12H	20.09	21.22	20.62	21.74	22.34	22.73	23.86	23.27	24.38	24.98
4H	2H	17.12	18.44	17.62	18.93	19.48	18.00	19.33	18.51	19.82	20.36
	3H	19.23	20.36	19.75	20.89	21.46	20.55	21.68	21.07	22.21	22.78
	4H	20.13	21.16	20.67	21.70	22.30	21.78	22.81	22.32	23.36	23.96
	6H	20.90	21.80	21.46	22.37	22.99	22.97	23.88	23.53	24.45	25.07
	8H	21.19	22.05	21.76	22.62	23.24	23.48	24.33	24.04	24.90	25.53
	12H	21.46	22.23	22.04	22.83	23.46	23.91	24.69	24.50	25.29	25.92
8H	4H	20.60	21.45	21.16	22.02	22.65	22.04	22.89	22.61	23.46	24.09
	6H	21.51	22.23	22.11	22.84	23.48	23.36	24.08	23.96	24.69	25.33
	8H	21.91	22.56	22.52	23.18	23.82	23.97	24.62	24.58	25.24	25.89
	12H	22.28	22.86	22.89	23.46	24.18	24.53	25.11	25.15	25.72	26.44
12H	4H	20.69	21.47	21.28	22.06	22.70	22.07	22.84	22.65	23.44	24.07
	6H	21.65	22.30	22.26	22.92	23.57	23.41	24.06	24.02	24.68	25.33
	8H	22.11	22.69	22.73	23.30	24.02	24.07	24.65	24.69	25.26	25.98