

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: P384153

Luminaire Tested: **22ID-70-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-70-L850-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

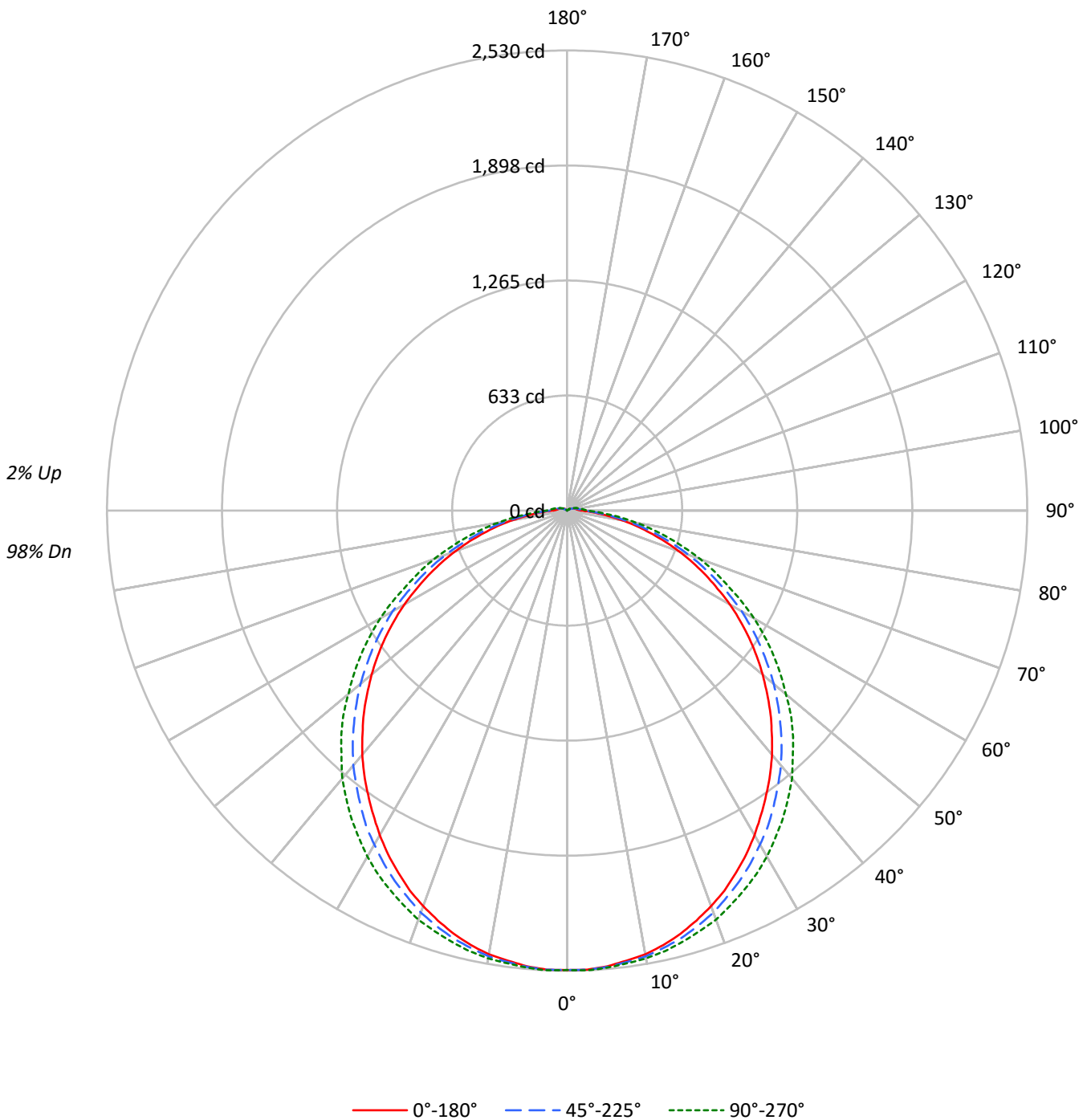
Lumens per Lamp: N/A
Luminaire Lumens: 7482.4 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (A_{in}): 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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6798	6798	6798
5°	6769	6769	6789
10°	6719	6730	6781
15°	6637	6669	6762
20°	6528	6594	6752
25°	6397	6490	6707
30°	6250	6372	6665
35°	6091	6247	6599
40°	5948	6120	6528
45°	5779	5958	6417
50°	5598	5802	6264
55°	5409	5614	6131
60°	5199	5410	5960
65°	4922	5104	5676
70°	4607	4804	5490
75°	4233	4397	5188
80°	3805	3922	4850
85°	3412	3500	4602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.3	3.2
10°-20°	685.9	9.2
20°-30°	1035.5	13.8
30°-40°	1240.7	16.6
40°-50°	1282.8	17.1
50°-60°	1161.7	15.5
60°-70°	898.9	12.0
70°-80°	552.2	7.4
80°-90°	219.4	2.9
90°-100°	80.0	1.1
100°-110°	49.2	0.7
110°-120°	25.3	0.3
120°-130°	10.8	0.1
130°-140°	0.7	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°	1960.7	26.2
0°-40°	3201.4	42.8
0°-60°	5645.9	75.5
0°-90°	7316.4	97.8
90°-120°	154.5	2.1
90°-150°	166.1	2.2
90°-180°	166.0	2.2
0°-180°	7482.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2526	2526	2526	2526	2526	
5°	2515	2515	2519	2519	2523	239
15°	2409	2413	2432	2447	2454	679
25°	2196	2212	2246	2284	2303	1012
35°	1908	1931	1980	2033	2067	1195
45°	1582	1601	1658	1726	1756	1219
55°	1222	1248	1297	1354	1385	1091
65°	842	861	903	948	971	833
75°	470	493	516	550	577	501
85°	163	174	190	209	220	163
90°	76	87	95	106	114	45
95°	57	64	72	80	87	45
105°	42	42	46	49	53	44
115°	27	23	23	27	30	27
125°	15	11	8	11	15	14
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
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°	2526.4	2526.4	2526.4	2526.4	2526.4
2.5°	2526.4	2522.6	2526.4	2526.4	2530.2
5°	2515.0	2515.0	2518.8	2518.8	2522.6
7.5°	2496.1	2496.1	2503.6	2507.4	2511.2
10°	2477.1	2477.1	2488.5	2492.3	2499.8
12.5°	2446.7	2450.5	2461.9	2473.3	2480.9
15°	2408.8	2412.6	2431.6	2446.7	2454.3
17.5°	2363.3	2370.9	2393.6	2416.4	2424.0
20°	2314.0	2325.4	2351.9	2378.5	2393.6
22.5°	2260.9	2268.5	2298.8	2332.9	2348.1
25°	2196.4	2211.6	2245.7	2283.6	2302.6
27.5°	2131.9	2147.1	2185.0	2230.5	2253.3
30°	2059.8	2075.0	2120.5	2169.8	2196.4
32.5°	1983.9	2002.9	2056.0	2105.3	2131.9
35°	1908.1	1930.8	1980.2	2033.3	2067.4
37.5°	1832.2	1851.2	1904.3	1961.2	1995.3
40°	1752.5	1771.5	1828.4	1885.3	1923.3
42.5°	1665.3	1688.1	1745.0	1805.7	1836.0
45°	1581.8	1600.8	1657.7	1726.0	1756.3
47.5°	1490.8	1517.4	1570.5	1635.0	1669.1
50°	1403.6	1426.3	1483.2	1543.9	1570.5
52.5°	1312.5	1335.3	1388.4	1449.1	1479.4
55°	1221.5	1248.0	1297.3	1354.2	1384.6
57.5°	1126.6	1153.2	1202.5	1251.8	1286.0
60°	1035.6	1062.2	1107.7	1157.0	1187.3
62.5°	933.2	955.9	1005.3	1058.4	1081.1
65°	842.1	861.1	902.8	948.3	971.1
67.5°	747.3	770.1	808.0	849.7	876.3
70°	652.5	679.0	709.4	747.3	777.6
72.5°	561.4	584.2	610.7	648.7	675.2
75°	470.4	493.1	515.9	550.0	576.6
77.5°	390.7	402.1	424.9	455.2	481.8
80°	303.5	318.6	337.6	368.0	386.9
82.5°	227.6	242.8	258.0	280.7	299.7
85°	163.1	174.5	189.7	208.6	220.0
87.5°	110.0	121.4	132.8	147.9	159.3
90°	75.9	87.2	94.8	106.2	113.8
92.5°	64.5	72.1	79.7	87.2	94.8
95°	56.9	64.5	72.1	79.7	87.2
97.5°	53.1	56.9	64.5	72.1	75.9
100°	49.3	53.1	56.9	64.5	68.3
102.5°	45.5	45.5	53.1	56.9	60.7
105°	41.7	41.7	45.5	49.3	53.1
107.5°	37.9	37.9	41.7	41.7	49.3
110°	34.1	30.3	34.1	34.1	41.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	30.3	26.6	30.3	30.3	34.1
115°	26.6	22.8	22.8	26.6	30.3
117.5°	22.8	19.0	19.0	19.0	26.6
120°	22.8	19.0	15.2	15.2	22.8
122.5°	19.0	15.2	11.4	15.2	19.0
125°	15.2	11.4	7.6	11.4	15.2
127.5°	11.4	11.4	3.8	7.6	11.4
130°	11.4	7.6	3.8	7.6	7.6
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	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	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

(END OF REPORT)