

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: P384105

Luminaire Tested: **14ID-80-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384105
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: 14ID-80-L850-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

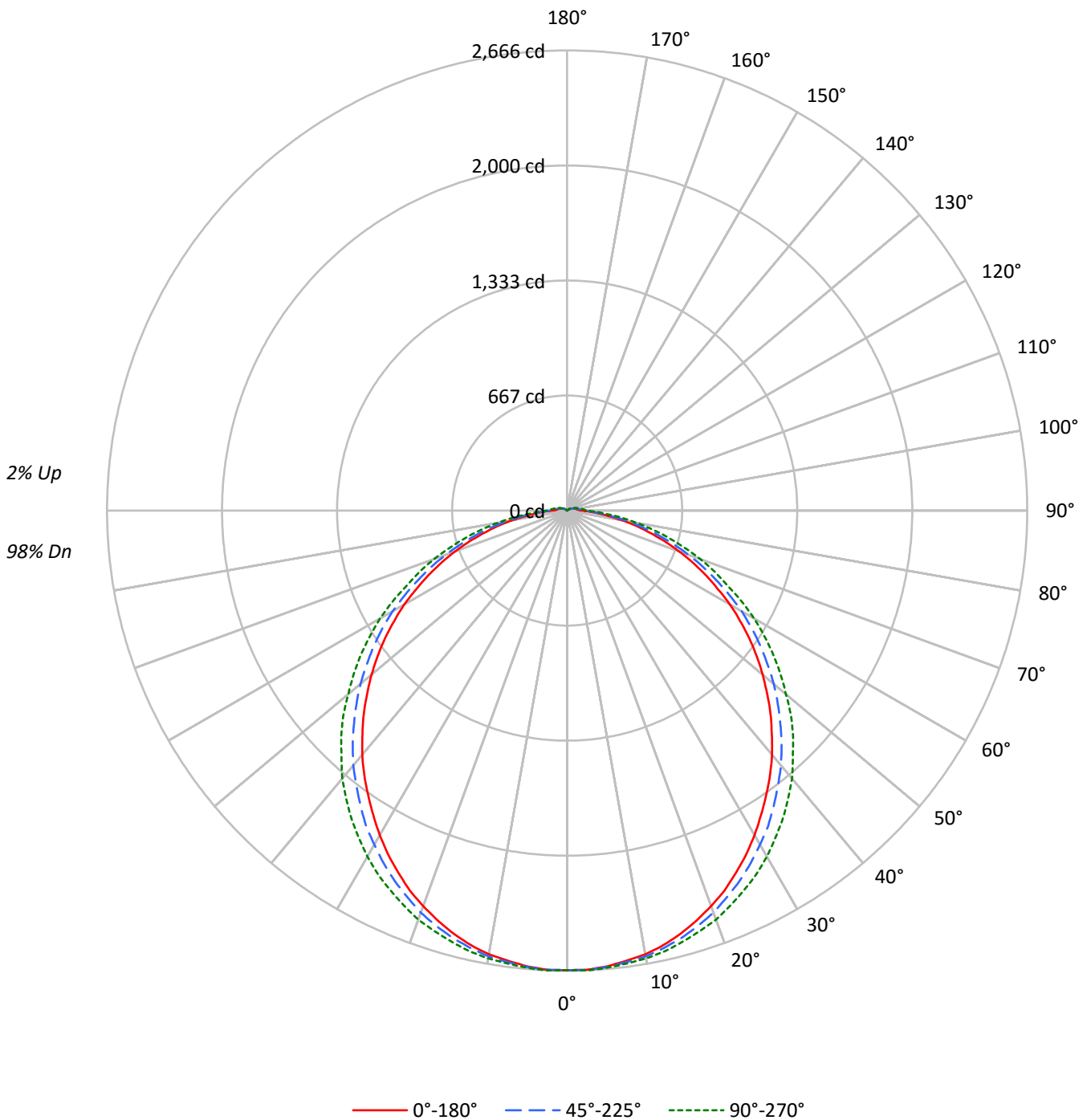
Lumens per Lamp: N/A
Luminaire Lumens: 7885.5 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 77.1
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	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°	7165	7165	7165
5°	7147	7125	7129
10°	7107	7074	7095
15°	7033	7001	7048
20°	6931	6913	7011
25°	6807	6794	6936
30°	6665	6661	6862
35°	6511	6519	6763
40°	6376	6375	6655
45°	6215	6192	6502
50°	6043	6016	6303
55°	5865	5804	6118
60°	5669	5572	5885
65°	5409	5232	5529
70°	5117	4892	5247
75°	4782	4434	4820
80°	4432	3890	4292
85°	4287	3352	3668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.2	3.2
10°-20°	722.8	9.2
20°-30°	1091.3	13.8
30°-40°	1307.6	16.6
40°-50°	1351.9	17.1
50°-60°	1224.2	15.5
60°-70°	947.3	12.0
70°-80°	581.9	7.4
80°-90°	231.2	2.9
90°-100°	84.4	1.1
100°-110°	51.9	0.7
110°-120°	26.7	0.3
120°-130°	11.4	0.1
130°-140°	0.8	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°	2066.3	26.2
0°-40°	3373.8	42.8
0°-60°	5949.9	75.5
0°-90°	7710.4	97.8
90°-120°	162.9	2.1
90°-150°	175.1	2.2
90°-180°	175.0	2.2
0°-180°	7885.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2662	2662	2662	2662	2662	
5°	2650	2650	2654	2654	2658	252
15°	2538	2542	2562	2578	2586	716
25°	2315	2331	2367	2407	2427	1067
35°	2011	2035	2087	2143	2179	1259
45°	1667	1687	1747	1819	1851	1285
55°	1287	1315	1367	1427	1459	1150
65°	888	908	952	999	1023	878
75°	496	520	544	580	608	528
85°	172	184	200	220	232	171
90°	80	92	100	112	120	47
95°	60	68	76	84	92	48
105°	44	44	48	52	56	47
115°	28	24	24	28	32	28
125°	16	12	8	12	16	15
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°	2662.5	2662.5	2662.5	2662.5	2662.5
2.5°	2662.5	2658.5	2662.5	2662.5	2666.5
5°	2650.5	2650.5	2654.5	2654.5	2658.5
7.5°	2630.5	2630.5	2638.5	2642.5	2646.5
10°	2610.5	2610.5	2622.5	2626.5	2634.5
12.5°	2578.5	2582.5	2594.5	2606.5	2614.5
15°	2538.5	2542.5	2562.5	2578.5	2586.5
17.5°	2490.6	2498.6	2522.6	2546.5	2554.5
20°	2438.6	2450.6	2478.6	2506.6	2522.6
22.5°	2382.6	2390.6	2422.6	2458.6	2474.6
25°	2314.7	2330.7	2366.6	2406.6	2426.6
27.5°	2246.7	2262.7	2302.7	2350.7	2374.6
30°	2170.8	2186.7	2234.7	2286.7	2314.7
32.5°	2090.8	2110.8	2166.8	2218.7	2246.7
35°	2010.8	2034.8	2086.8	2142.8	2178.8
37.5°	1930.9	1950.9	2006.8	2066.8	2102.8
40°	1846.9	1866.9	1926.9	1986.9	2026.8
42.5°	1755.0	1779.0	1838.9	1902.9	1934.9
45°	1667.0	1687.0	1747.0	1819.0	1850.9
47.5°	1571.1	1599.1	1655.1	1723.0	1759.0
50°	1479.2	1503.1	1563.1	1627.1	1655.1
52.5°	1383.2	1407.2	1463.2	1527.1	1559.1
55°	1287.3	1315.2	1367.2	1427.2	1459.2
57.5°	1187.3	1215.3	1267.3	1319.2	1355.2
60°	1091.4	1119.4	1167.3	1219.3	1251.3
62.5°	983.4	1007.4	1059.4	1115.4	1139.3
65°	887.5	907.5	951.5	999.4	1023.4
67.5°	787.5	811.5	851.5	895.5	923.5
70°	687.6	715.6	747.6	787.5	819.5
72.5°	591.7	615.6	643.6	683.6	711.6
75°	495.7	519.7	543.7	579.7	607.7
77.5°	411.8	423.8	447.7	479.7	507.7
80°	319.8	335.8	355.8	387.8	407.8
82.5°	239.9	255.9	271.8	295.8	315.8
85°	171.9	183.9	199.9	219.9	231.9
87.5°	115.9	127.9	139.9	155.9	167.9
90°	80.0	91.9	99.9	111.9	119.9
92.5°	68.0	76.0	84.0	91.9	99.9
95°	60.0	68.0	76.0	84.0	91.9
97.5°	56.0	60.0	68.0	76.0	80.0
100°	52.0	56.0	60.0	68.0	72.0
102.5°	48.0	48.0	56.0	60.0	64.0
105°	44.0	44.0	48.0	52.0	56.0
107.5°	40.0	40.0	44.0	44.0	52.0
110°	36.0	32.0	36.0	36.0	44.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	32.0	28.0	32.0	32.0	36.0
115°	28.0	24.0	24.0	28.0	32.0
117.5°	24.0	20.0	20.0	20.0	28.0
120°	24.0	20.0	16.0	16.0	24.0
122.5°	20.0	16.0	12.0	16.0	20.0
125°	16.0	12.0	8.0	12.0	16.0
127.5°	12.0	12.0	4.0	8.0	12.0
130°	12.0	8.0	4.0	8.0	8.0
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)