

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: P384161

Luminaire Tested: **22ID-80-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384161
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-80-L850-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

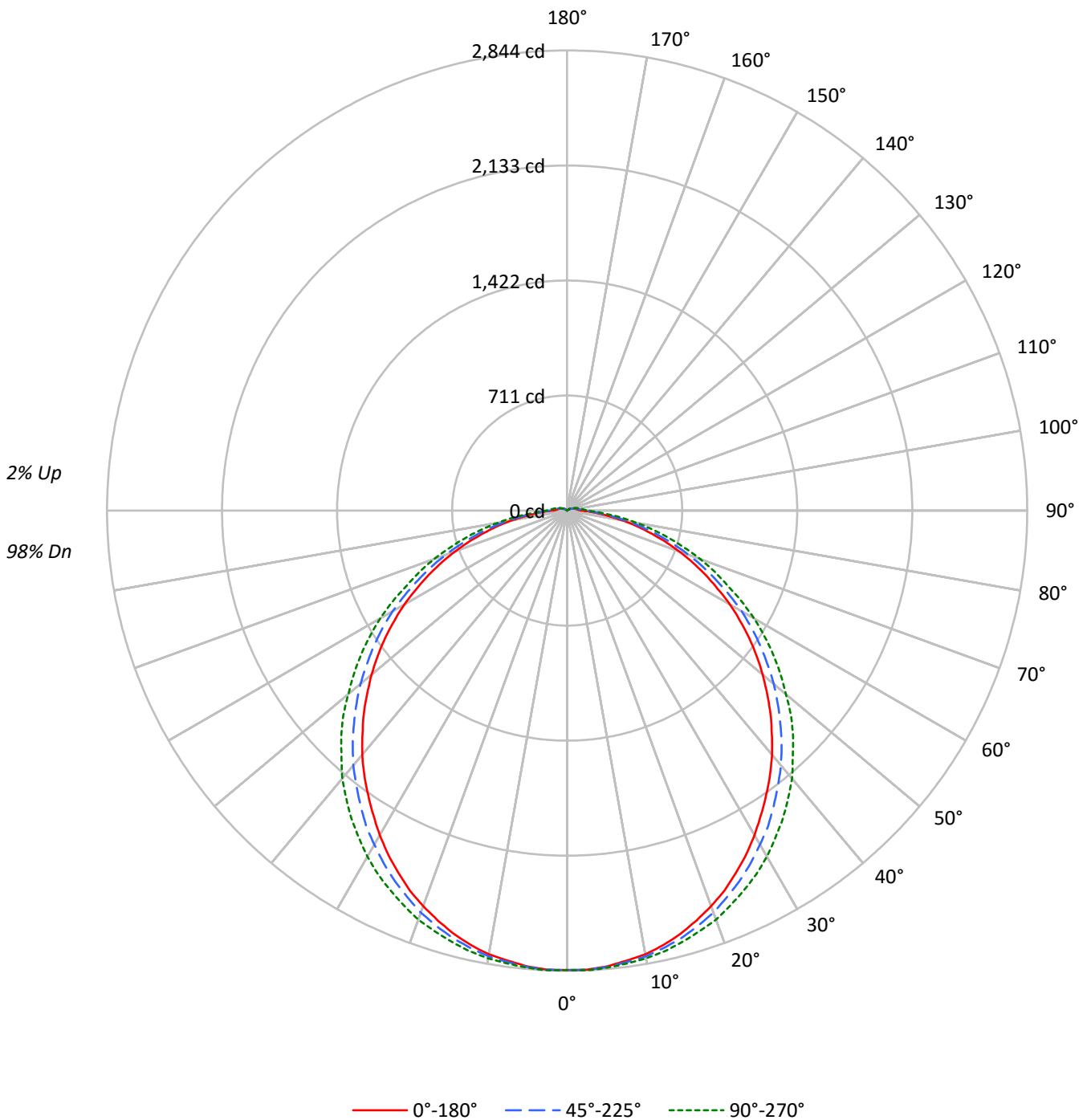
Lumens per Lamp: N/A
Luminaire Lumens: 8411.2 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 71.8
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°	7642	7642	7642
5°	7609	7609	7632
10°	7553	7565	7623
15°	7460	7497	7601
20°	7338	7412	7591
25°	7191	7295	7539
30°	7026	7163	7492
35°	6846	7023	7418
40°	6687	6880	7338
45°	6497	6697	7213
50°	6293	6522	7041
55°	6080	6311	6892
60°	5844	6081	6700
65°	5534	5738	6381
70°	5179	5400	6172
75°	4758	4943	5833
80°	4276	4408	5453
85°	3836	3934	5173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.0	3.2
10°-20°	771.0	9.2
20°-30°	1164.1	13.8
30°-40°	1394.8	16.6
40°-50°	1442.0	17.1
50°-60°	1305.9	15.5
60°-70°	1010.5	12.0
70°-80°	620.7	7.4
80°-90°	246.7	2.9
90°-100°	90.0	1.1
100°-110°	55.3	0.7
110°-120°	28.4	0.3
120°-130°	12.1	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°	2204.1	26.2
0°-40°	3598.8	42.8
0°-60°	6346.7	75.5
0°-90°	8224.5	97.8
90°-120°	173.7	2.1
90°-150°	186.6	2.2
90°-180°	187.0	2.2
0°-180°	8411.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2840	2840	2840	2840	2840	
5°	2827	2827	2832	2832	2836	268
15°	2708	2712	2733	2750	2759	763
25°	2469	2486	2524	2567	2588	1138
35°	2145	2170	2226	2286	2324	1343
45°	1778	1800	1864	1940	1974	1371
55°	1373	1403	1458	1522	1556	1227
65°	947	968	1015	1066	1092	936
75°	529	554	580	618	648	564
85°	183	196	213	234	247	183
90°	85	98	107	119	128	50
95°	64	72	81	90	98	51
105°	47	47	51	55	60	50
115°	30	26	26	30	34	30
125°	17	13	8	13	17	16
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°	2840.0	2840.0	2840.0	2840.0	2840.0
2.5°	2840.0	2835.7	2840.0	2840.0	2844.3
5°	2827.2	2827.2	2831.5	2831.5	2835.7
7.5°	2805.9	2805.9	2814.4	2818.7	2823.0
10°	2784.6	2784.6	2797.4	2801.6	2810.2
12.5°	2750.5	2754.7	2767.5	2780.3	2788.8
15°	2707.8	2712.1	2733.4	2750.5	2759.0
17.5°	2656.6	2665.2	2690.8	2716.3	2724.9
20°	2601.2	2614.0	2643.9	2673.7	2690.8
22.5°	2541.5	2550.0	2584.2	2622.5	2639.6
25°	2469.0	2486.1	2524.5	2567.1	2588.4
27.5°	2396.5	2413.6	2456.2	2507.4	2533.0
30°	2315.5	2332.6	2383.7	2439.2	2469.0
32.5°	2230.2	2251.5	2311.2	2366.7	2396.5
35°	2144.9	2170.5	2226.0	2285.7	2324.0
37.5°	2059.6	2081.0	2140.7	2204.6	2243.0
40°	1970.1	1991.4	2055.4	2119.3	2162.0
42.5°	1872.0	1897.6	1961.6	2029.8	2063.9
45°	1778.2	1799.5	1863.5	1940.2	1974.4
47.5°	1675.9	1705.7	1765.4	1837.9	1876.3
50°	1577.8	1603.4	1667.3	1735.6	1765.4
52.5°	1475.4	1501.0	1560.7	1629.0	1663.1
55°	1373.1	1402.9	1458.4	1522.3	1556.5
57.5°	1266.5	1296.3	1351.8	1407.2	1445.6
60°	1164.1	1194.0	1245.2	1300.6	1334.7
62.5°	1049.0	1074.6	1130.0	1189.7	1215.3
65°	946.7	968.0	1014.9	1066.1	1091.7
67.5°	840.1	865.6	908.3	955.2	985.0
70°	733.5	763.3	797.4	840.1	874.2
72.5°	631.1	656.7	686.5	729.2	759.0
75°	528.8	554.4	579.9	618.3	648.2
77.5°	439.2	452.0	477.6	511.7	541.6
80°	341.1	358.2	379.5	413.6	435.0
82.5°	255.9	272.9	290.0	315.6	336.9
85°	183.4	196.2	213.2	234.5	247.3
87.5°	123.7	136.5	149.2	166.3	179.1
90°	85.3	98.1	106.6	119.4	127.9
92.5°	72.5	81.0	89.5	98.1	106.6
95°	64.0	72.5	81.0	89.5	98.1
97.5°	59.7	64.0	72.5	81.0	85.3
100°	55.4	59.7	64.0	72.5	76.8
102.5°	51.2	51.2	59.7	64.0	68.2
105°	46.9	46.9	51.2	55.4	59.7
107.5°	42.6	42.6	46.9	46.9	55.4
110°	38.4	34.1	38.4	38.4	46.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	34.1	29.8	34.1	34.1	38.4
115°	29.8	25.6	25.6	29.8	34.1
117.5°	25.6	21.3	21.3	21.3	29.8
120°	25.6	21.3	17.1	17.1	25.6
122.5°	21.3	17.1	12.8	17.1	21.3
125°	17.1	12.8	8.5	12.8	17.1
127.5°	12.8	12.8	4.3	8.5	12.8
130°	12.8	8.5	4.3	8.5	8.5
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)