

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: P384216

Luminaire Tested: **24ID-85-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384216
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: 24ID-85-L840-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

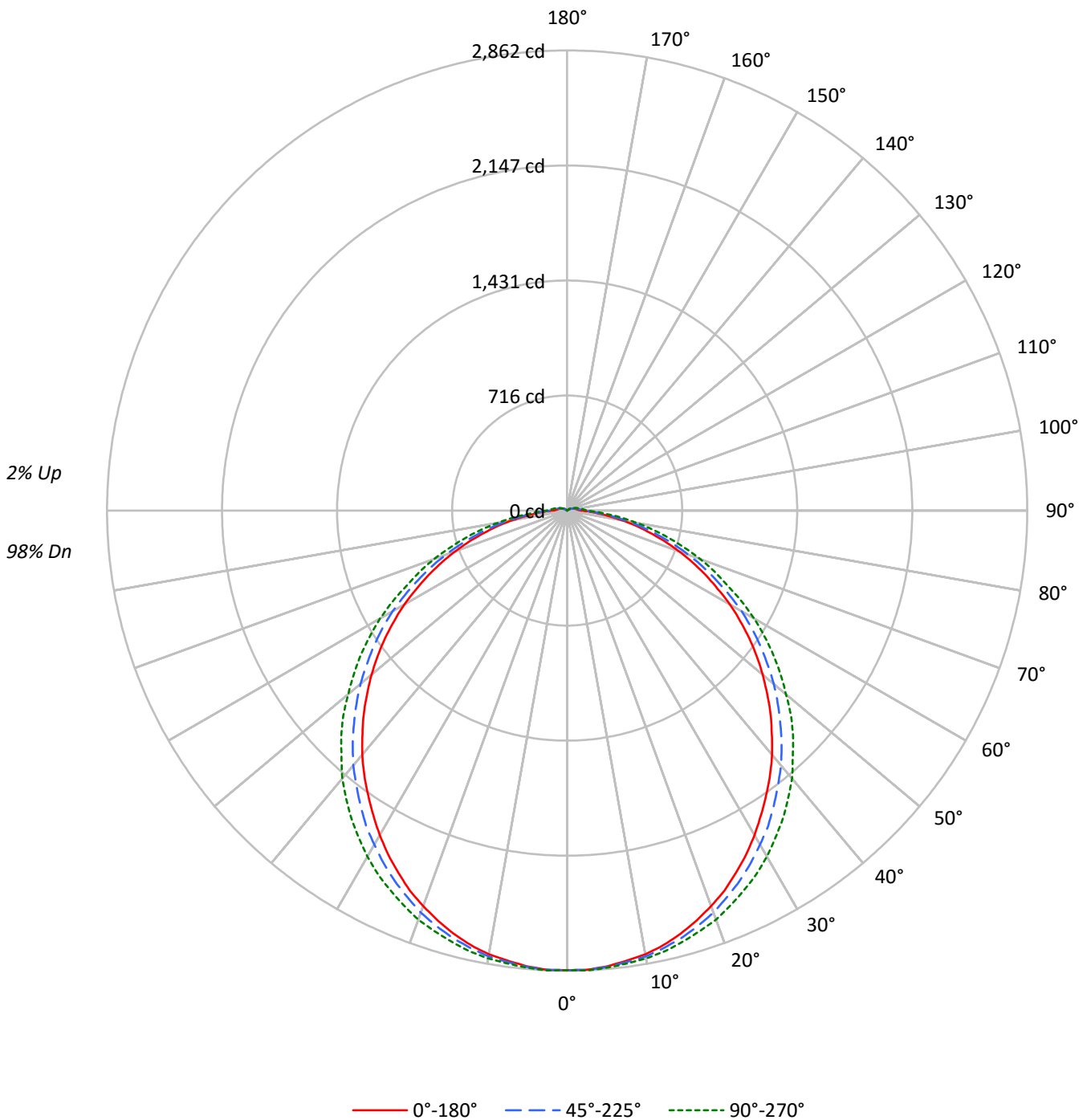
Lumens per Lamp: N/A
Luminaire Lumens: 8465.1 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 82.4
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°	3846	3846	3846
5°	3836	3834	3841
10°	3815	3817	3836
15°	3775	3787	3825
20°	3720	3750	3820
25°	3653	3696	3794
30°	3577	3634	3770
35°	3495	3569	3733
40°	3423	3503	3693
45°	3336	3418	3630
50°	3243	3337	3543
55°	3148	3239	3468
60°	3043	3132	3372
65°	2903	2970	3211
70°	2747	2815	3106
75°	2567	2605	2935
80°	2379	2367	2743
85°	2301	2201	2603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.7	3.2
10°-20°	776.0	9.2
20°-30°	1171.5	13.8
30°-40°	1403.7	16.6
40°-50°	1451.3	17.1
50°-60°	1314.2	15.5
60°-70°	1017.0	12.0
70°-80°	624.7	7.4
80°-90°	248.2	2.9
90°-100°	90.6	1.1
100°-110°	55.6	0.7
110°-120°	28.6	0.3
120°-130°	12.2	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°	2218.2	26.2
0°-40°	3621.9	42.8
0°-60°	6387.3	75.5
0°-90°	8277.2	97.8
90°-120°	174.8	2.1
90°-150°	187.9	2.2
90°-180°	188.0	2.2
0°-180°	8465.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2858	2858	2858	2858	2858	
5°	2845	2845	2850	2850	2854	270
15°	2725	2730	2751	2768	2777	768
25°	2485	2502	2541	2584	2605	1145
35°	2159	2184	2240	2300	2339	1351
45°	1790	1811	1875	1953	1987	1379
55°	1382	1412	1468	1532	1566	1235
65°	953	974	1021	1073	1099	942
75°	532	558	584	622	652	567
85°	184	197	215	236	249	184
90°	86	99	107	120	129	51
95°	64	73	82	90	99	51
105°	47	47	52	56	60	50
115°	30	26	26	30	34	30
125°	17	13	9	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°	2858.2	2858.2	2858.2	2858.2	2858.2
2.5°	2858.2	2853.9	2858.2	2858.2	2862.5
5°	2845.3	2845.3	2849.6	2849.6	2853.9
7.5°	2823.9	2823.9	2832.5	2836.7	2841.0
10°	2802.4	2802.4	2815.3	2819.6	2828.2
12.5°	2768.1	2772.4	2785.2	2798.1	2806.7
15°	2725.2	2729.5	2750.9	2768.1	2776.7
17.5°	2673.7	2682.3	2708.0	2733.8	2742.3
20°	2617.9	2630.8	2660.8	2690.8	2708.0
22.5°	2557.8	2566.4	2600.7	2639.3	2656.5
25°	2484.8	2502.0	2540.6	2583.5	2605.0
27.5°	2411.9	2429.0	2472.0	2523.5	2549.2
30°	2330.3	2347.5	2399.0	2454.8	2484.8
32.5°	2244.5	2266.0	2326.0	2381.8	2411.9
35°	2158.7	2184.4	2240.2	2300.3	2338.9
37.5°	2072.8	2094.3	2154.4	2218.8	2257.4
40°	1982.7	2004.2	2068.6	2132.9	2175.8
42.5°	1884.0	1909.8	1974.1	2042.8	2077.1
45°	1789.6	1811.1	1875.4	1952.7	1987.0
47.5°	1686.6	1716.6	1776.7	1849.7	1888.3
50°	1587.9	1613.6	1678.0	1746.7	1776.7
52.5°	1484.9	1510.6	1570.7	1639.4	1673.7
55°	1381.9	1411.9	1467.7	1532.1	1566.4
57.5°	1274.6	1304.6	1360.4	1416.2	1454.9
60°	1171.6	1201.6	1253.1	1308.9	1343.3
62.5°	1055.7	1081.5	1137.3	1197.4	1223.1
65°	952.7	974.2	1021.4	1072.9	1098.7
67.5°	845.4	871.2	914.1	961.3	991.4
70°	738.2	768.2	802.5	845.4	879.8
72.5°	635.2	660.9	690.9	733.9	763.9
75°	532.2	557.9	583.7	622.3	652.3
77.5°	442.0	454.9	480.7	515.0	545.0
80°	343.3	360.5	382.0	416.3	437.7
82.5°	257.5	274.7	291.8	317.6	339.0
85°	184.5	197.4	214.6	236.0	248.9
87.5°	124.5	137.3	150.2	167.4	180.2
90°	85.8	98.7	107.3	120.2	128.7
92.5°	73.0	81.5	90.1	98.7	107.3
95°	64.4	73.0	81.5	90.1	98.7
97.5°	60.1	64.4	73.0	81.5	85.8
100°	55.8	60.1	64.4	73.0	77.2
102.5°	51.5	51.5	60.1	64.4	68.7
105°	47.2	47.2	51.5	55.8	60.1
107.5°	42.9	42.9	47.2	47.2	55.8
110°	38.6	34.3	38.6	38.6	47.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	34.3	30.0	34.3	34.3	38.6
115°	30.0	25.7	25.7	30.0	34.3
117.5°	25.7	21.5	21.5	21.5	30.0
120°	25.7	21.5	17.2	17.2	25.7
122.5°	21.5	17.2	12.9	17.2	21.5
125°	17.2	12.9	8.6	12.9	17.2
127.5°	12.9	12.9	4.3	8.6	12.9
130°	12.9	8.6	4.3	8.6	8.6
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)