

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: P384162

Luminaire Tested: **22ID-85-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384162
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-85-L830-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

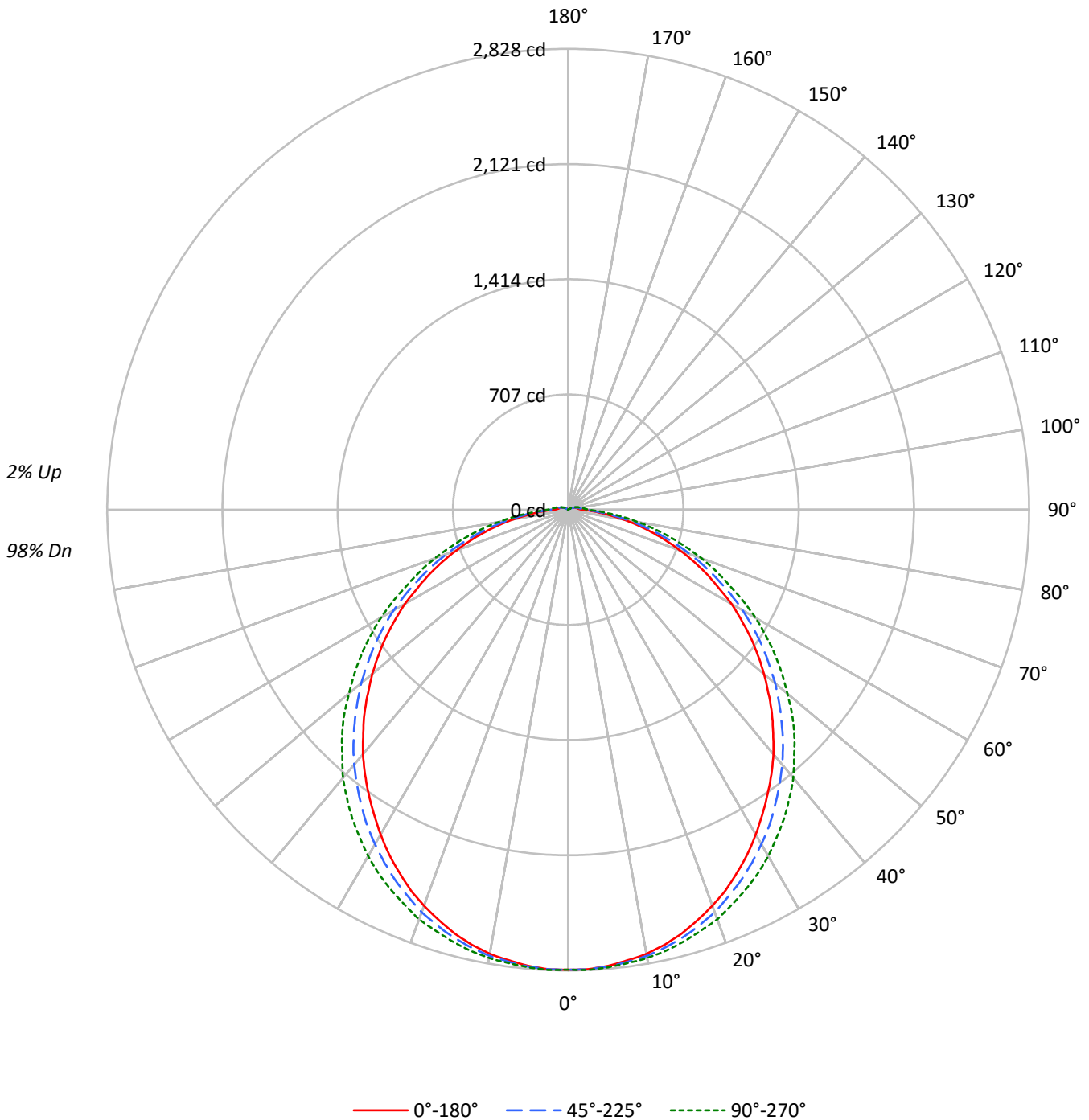
Lumens per Lamp: N/A
Luminaire Lumens: 8361.5 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 76.8
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°	7597	7597	7597
5°	7564	7564	7587
10°	7509	7520	7578
15°	7416	7453	7557
20°	7294	7368	7546
25°	7149	7252	7494
30°	6984	7121	7447
35°	6806	6981	7374
40°	6648	6839	7295
45°	6458	6658	7171
50°	6256	6484	7000
55°	6044	6274	6852
60°	5809	6045	6660
65°	5501	5704	6343
70°	5147	5368	6135
75°	4730	4914	5798
80°	4251	4383	5420
85°	3813	3912	5144



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.4	3.2
10°-20°	766.5	9.2
20°-30°	1157.2	13.8
30°-40°	1386.5	16.6
40°-50°	1433.5	17.1
50°-60°	1298.1	15.5
60°-70°	1004.5	12.0
70°-80°	617.1	7.4
80°-90°	245.2	2.9
90°-100°	89.4	1.1
100°-110°	55.0	0.7
110°-120°	28.3	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°	2191.0	26.2
0°-40°	3577.6	42.8
0°-60°	6309.2	75.5
0°-90°	8176.0	97.8
90°-120°	172.7	2.1
90°-150°	185.6	2.2
90°-180°	186.0	2.2
0°-180°	8361.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2823	2823	2823	2823	2823	
5°	2810	2810	2815	2815	2819	267
15°	2692	2696	2717	2734	2743	759
25°	2454	2471	2510	2552	2573	1131
35°	2132	2158	2213	2272	2310	1335
45°	1768	1789	1852	1929	1963	1362
55°	1365	1395	1450	1513	1547	1220
65°	941	962	1009	1060	1085	931
75°	526	551	576	615	644	560
85°	182	195	212	233	246	182
90°	85	98	106	119	127	50
95°	64	72	80	89	98	51
105°	47	47	51	55	59	49
115°	30	25	25	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°	2823.2	2823.2	2823.2	2823.2	2823.2
2.5°	2823.2	2819.0	2823.2	2823.2	2827.5
5°	2810.5	2810.5	2814.7	2814.7	2819.0
7.5°	2789.3	2789.3	2797.8	2802.0	2806.3
10°	2768.1	2768.1	2780.8	2785.1	2793.6
12.5°	2734.2	2738.4	2751.2	2763.9	2772.4
15°	2691.8	2696.1	2717.3	2734.2	2742.7
17.5°	2640.9	2649.4	2674.9	2700.3	2708.8
20°	2585.8	2598.6	2628.2	2657.9	2674.9
22.5°	2526.5	2535.0	2568.9	2607.0	2624.0
25°	2454.4	2471.4	2509.5	2551.9	2573.1
27.5°	2382.4	2399.3	2441.7	2492.6	2518.0
30°	2301.8	2318.8	2369.6	2424.8	2454.4
32.5°	2217.0	2238.2	2297.6	2352.7	2382.4
35°	2132.3	2157.7	2212.8	2272.1	2310.3
37.5°	2047.5	2068.7	2128.0	2191.6	2229.8
40°	1958.5	1979.7	2043.2	2106.8	2149.2
42.5°	1861.0	1886.4	1950.0	2017.8	2051.7
45°	1767.7	1788.9	1852.5	1928.8	1962.7
47.5°	1666.0	1695.6	1755.0	1827.0	1865.2
50°	1568.5	1593.9	1657.5	1725.3	1755.0
52.5°	1466.7	1492.2	1551.5	1619.3	1653.2
55°	1365.0	1394.7	1449.8	1513.4	1547.3
57.5°	1259.0	1288.7	1343.8	1398.9	1437.0
60°	1157.3	1186.9	1237.8	1292.9	1326.8
62.5°	1042.8	1068.2	1123.4	1182.7	1208.1
65°	941.1	962.3	1008.9	1059.8	1085.2
67.5°	835.1	860.5	902.9	949.6	979.2
70°	729.1	758.8	792.7	835.1	869.0
72.5°	627.4	652.8	682.5	724.9	754.6
75°	525.6	551.1	576.5	614.7	644.3
77.5°	436.6	449.3	474.8	508.7	538.4
80°	339.1	356.1	377.3	411.2	432.4
82.5°	254.3	271.3	288.3	313.7	334.9
85°	182.3	195.0	212.0	233.1	245.9
87.5°	122.9	135.7	148.4	165.3	178.0
90°	84.8	97.5	106.0	118.7	127.2
92.5°	72.1	80.5	89.0	97.5	106.0
95°	63.6	72.1	80.5	89.0	97.5
97.5°	59.3	63.6	72.1	80.5	84.8
100°	55.1	59.3	63.6	72.1	76.3
102.5°	50.9	50.9	59.3	63.6	67.8
105°	46.6	46.6	50.9	55.1	59.3
107.5°	42.4	42.4	46.6	46.6	55.1
110°	38.2	33.9	38.2	38.2	46.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	33.9	29.7	33.9	33.9	38.2
115°	29.7	25.4	25.4	29.7	33.9
117.5°	25.4	21.2	21.2	21.2	29.7
120°	25.4	21.2	17.0	17.0	25.4
122.5°	21.2	17.0	12.7	17.0	21.2
125°	17.0	12.7	8.5	12.7	17.0
127.5°	12.7	12.7	4.2	8.5	12.7
130°	12.7	8.5	4.2	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)