

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: P384334

Luminaire Tested: **22ID-90-L830-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-90-L830-CFD2
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

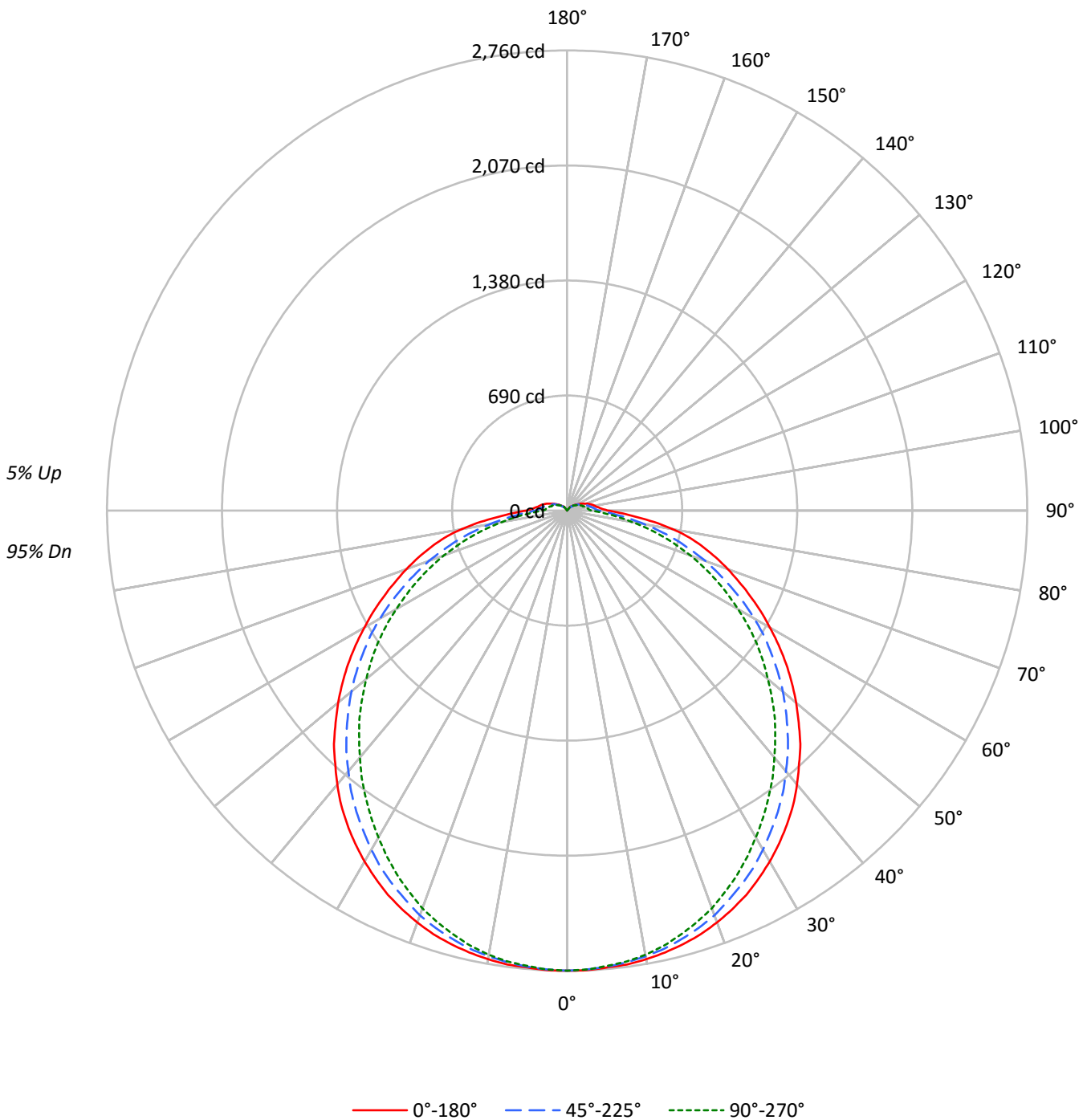
Lumens per Lamp: N/A
Luminaire Lumens: 8950.8 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 84.1
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



TEST NUMBER: P384334
CATALOG NUMBER: 22ID-90-L830-CFD2

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7426	7426	7426
5°	7377	7342	7352
10°	7359	7266	7286
15°	7336	7184	7176
20°	7306	7094	7055
25°	7268	6966	6893
30°	7204	6833	6709
35°	7136	6689	6533
40°	7044	6526	6347
45°	6950	6366	6188
50°	6828	6201	5986
55°	6722	6003	5813
60°	6606	5794	5566
65°	6539	5510	5319
70°	6564	5235	5031
75°	6698	4860	4657
80°	6797	4363	4183
85°	6428	3921	3857



TEST NUMBER: P384334

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.2	2.9
10°-20°	751.1	8.4
20°-30°	1140.8	12.7
30°-40°	1377.9	15.4
40°-50°	1442.2	16.1
50°-60°	1338.2	15.0
60°-70°	1083.9	12.1
70°-80°	731.5	8.2
80°-90°	353.4	3.9
90°-100°	177.8	2.0
100°-110°	129.2	1.4
110°-120°	86.4	1.0
120°-130°	50.1	0.6
130°-140°	25.2	0.3
140°-150°	1.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2153.0	24.1
0°-40°	3530.9	39.4
0°-60°	6311.3	70.5
0°-90°	8480.2	94.7
90°-120°	393.4	4.4
90°-150°	470.6	5.3
90°-180°	471.0	5.3
0°-180°	8950.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2760	2760	2760	2760	2760	
5°	2751	2746	2746	2742	2742	262
15°	2692	2678	2660	2642	2633	760
25°	2543	2520	2475	2430	2412	1172
35°	2299	2267	2204	2136	2105	1438
45°	1978	1942	1870	1793	1762	1524
55°	1603	1567	1495	1423	1387	1433
65°	1210	1165	1084	1025	985	1201
75°	845	759	673	623	587	890
85°	406	352	298	271	244	384
90°	244	221	190	172	144	139
95°	194	181	163	144	126	153
105°	144	136	122	108	99	154
115°	99	90	90	77	77	99
125°	63	54	59	50	54	55
135°	36	32	32	32	36	28
145°	0	0	0	0	0	2
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



TEST NUMBER: P384334

CATALOG NUMBER: 22ID-90-L830-CFD2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2759.7	2759.7	2759.7	2759.7	2759.7
2.5°	2759.7	2755.2	2755.2	2755.2	2755.2
5°	2750.7	2746.1	2746.1	2741.6	2741.6
7.5°	2746.1	2737.1	2732.6	2728.1	2728.1
10°	2732.6	2723.6	2714.5	2705.5	2705.5
12.5°	2714.5	2705.5	2691.9	2673.9	2673.9
15°	2691.9	2678.4	2660.3	2642.3	2633.2
17.5°	2664.8	2651.3	2624.2	2597.1	2588.1
20°	2628.7	2610.6	2583.5	2547.4	2538.4
22.5°	2588.1	2570.0	2529.3	2493.2	2475.1
25°	2542.9	2520.3	2475.1	2430.0	2411.9
27.5°	2488.7	2466.1	2416.4	2362.2	2339.6
30°	2430.0	2402.9	2348.7	2290.0	2262.9
32.5°	2366.7	2335.1	2276.4	2213.2	2186.1
35°	2299.0	2267.4	2204.1	2136.4	2104.8
37.5°	2226.7	2195.1	2127.4	2055.1	2023.5
40°	2145.4	2113.8	2041.5	1969.3	1933.1
42.5°	2059.6	2032.5	1960.2	1883.5	1847.3
45°	1978.3	1942.2	1869.9	1793.1	1761.5
47.5°	1883.5	1856.4	1779.6	1702.8	1666.7
50°	1793.1	1761.5	1689.2	1612.5	1571.8
52.5°	1698.3	1671.2	1594.4	1517.6	1481.5
55°	1603.4	1567.3	1495.0	1422.8	1386.6
57.5°	1504.1	1472.4	1400.2	1332.4	1287.3
60°	1404.7	1373.1	1296.3	1233.1	1183.4
62.5°	1309.8	1273.7	1192.4	1124.7	1084.0
65°	1210.5	1165.3	1084.0	1025.3	984.6
67.5°	1115.6	1061.4	980.1	925.9	885.3
70°	1025.3	962.1	880.8	826.6	785.9
72.5°	935.0	858.2	772.4	722.7	686.5
75°	844.6	758.8	673.0	623.3	587.2
77.5°	754.3	654.9	569.1	528.5	492.3
80°	645.9	551.0	469.7	433.6	397.5
82.5°	523.9	447.2	379.4	343.3	316.2
85°	406.5	352.3	298.1	271.0	243.9
87.5°	316.2	275.5	234.9	212.3	189.7
90°	243.9	221.3	189.7	171.6	144.5
92.5°	212.3	194.2	171.6	153.6	131.0
95°	194.2	180.7	162.6	144.5	126.5
97.5°	176.2	167.1	149.1	135.5	117.4
100°	167.1	153.6	140.0	126.5	112.9
102.5°	158.1	144.5	131.0	117.4	108.4
105°	144.5	135.5	122.0	108.4	99.4
107.5°	135.5	122.0	112.9	99.4	94.9
110°	122.0	112.9	103.9	94.9	90.3



TEST NUMBER: P384334

CATALOG NUMBER: 22ID-90-L830-CFD2

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	108.4	103.9	94.9	85.8	81.3
115°	99.4	90.3	90.3	76.8	76.8
117.5°	90.3	81.3	81.3	72.3	72.3
120°	76.8	72.3	72.3	63.2	63.2
122.5°	67.8	63.2	63.2	58.7	58.7
125°	63.2	54.2	58.7	49.7	54.2
127.5°	54.2	49.7	49.7	45.2	49.7
130°	45.2	40.7	40.7	40.7	45.2
132.5°	40.7	36.1	36.1	36.1	40.7
135°	36.1	31.6	31.6	31.6	36.1
137.5°	31.6	27.1	22.6	27.1	31.6
140°	27.1	22.6	18.1	22.6	27.1
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)