

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: P384215

Luminaire Tested: **24ID-85-L835-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384215
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-L835-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

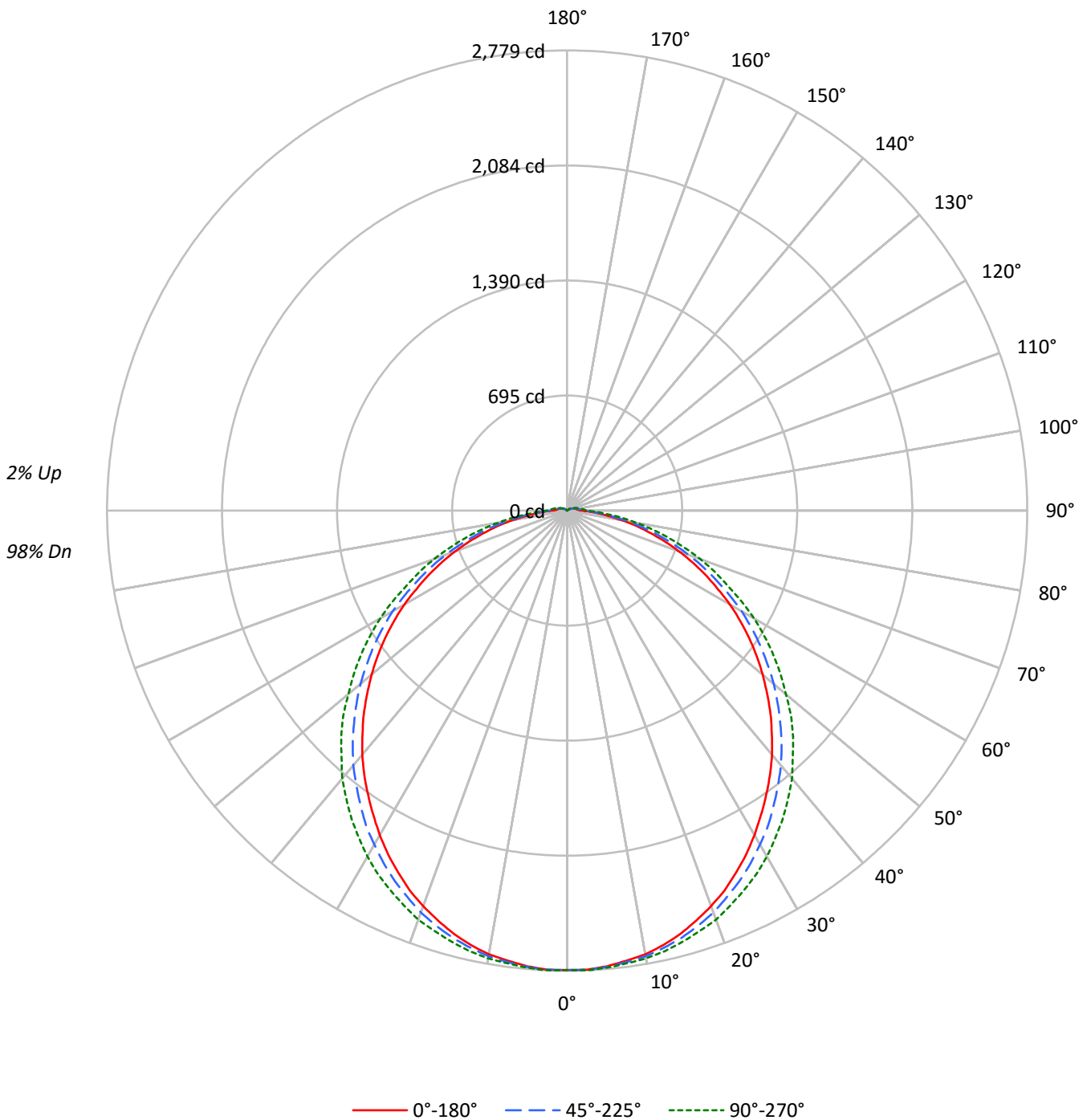
Lumens per Lamp: N/A
Luminaire Lumens: 8218.4 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 82
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°	3734	3734	3734
5°	3724	3722	3729
10°	3704	3705	3724
15°	3665	3677	3714
20°	3612	3640	3708
25°	3547	3588	3683
30°	3473	3529	3660
35°	3393	3465	3624
40°	3323	3401	3585
45°	3238	3318	3524
50°	3149	3239	3440
55°	3056	3144	3367
60°	2954	3041	3273
65°	2819	2884	3117
70°	2666	2733	3015
75°	2492	2529	2849
80°	2310	2297	2664
85°	2235	2137	2528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.8	3.2
10°-20°	753.3	9.2
20°-30°	1137.4	13.8
30°-40°	1362.8	16.6
40°-50°	1409.0	17.1
50°-60°	1275.9	15.5
60°-70°	987.3	12.0
70°-80°	606.5	7.4
80°-90°	241.0	2.9
90°-100°	87.9	1.1
100°-110°	54.0	0.7
110°-120°	27.8	0.3
120°-130°	11.9	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°	2153.5	26.2
0°-40°	3516.3	42.8
0°-60°	6201.2	75.5
0°-90°	8036.0	97.8
90°-120°	169.7	2.1
90°-150°	182.4	2.2
90°-180°	182.0	2.2
0°-180°	8218.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2775	2775	2775	2775	2775	
5°	2762	2762	2767	2767	2771	262
15°	2646	2650	2671	2687	2696	746
25°	2412	2429	2467	2508	2529	1112
35°	2096	2121	2175	2233	2271	1312
45°	1737	1758	1821	1896	1929	1339
55°	1342	1371	1425	1488	1521	1199
65°	925	946	992	1042	1067	915
75°	517	542	567	604	633	551
85°	179	192	208	229	242	179
90°	83	96	104	117	125	49
95°	62	71	79	88	96	50
105°	46	46	50	54	58	49
115°	29	25	25	29	33	30
125°	17	12	8	12	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°	2774.9	2774.9	2774.9	2774.9	2774.9
2.5°	2774.9	2770.7	2774.9	2774.9	2779.1
5°	2762.4	2762.4	2766.6	2766.6	2770.7
7.5°	2741.6	2741.6	2749.9	2754.1	2758.2
10°	2720.7	2720.7	2733.2	2737.4	2745.7
12.5°	2687.4	2691.6	2704.1	2716.6	2724.9
15°	2645.7	2649.9	2670.7	2687.4	2695.7
17.5°	2595.7	2604.1	2629.1	2654.1	2662.4
20°	2541.6	2554.1	2583.2	2612.4	2629.1
22.5°	2483.3	2491.6	2524.9	2562.4	2579.1
25°	2412.4	2429.1	2466.6	2508.3	2529.1
27.5°	2341.6	2358.3	2399.9	2449.9	2474.9
30°	2262.4	2279.1	2329.1	2383.3	2412.4
32.5°	2179.1	2199.9	2258.3	2312.4	2341.6
35°	2095.8	2120.8	2174.9	2233.3	2270.8
37.5°	2012.4	2033.3	2091.6	2154.1	2191.6
40°	1924.9	1945.8	2008.3	2070.8	2112.4
42.5°	1829.1	1854.1	1916.6	1983.3	2016.6
45°	1737.4	1758.3	1820.8	1895.8	1929.1
47.5°	1637.4	1666.6	1724.9	1795.8	1833.3
50°	1541.6	1566.6	1629.1	1695.8	1724.9
52.5°	1441.6	1466.6	1525.0	1591.6	1624.9
55°	1341.6	1370.8	1425.0	1487.5	1520.8
57.5°	1237.5	1266.6	1320.8	1375.0	1412.5
60°	1137.5	1166.6	1216.6	1270.8	1304.1
62.5°	1025.0	1050.0	1104.1	1162.5	1187.5
65°	925.0	945.8	991.6	1041.6	1066.6
67.5°	820.8	845.8	887.5	933.3	962.5
70°	716.6	745.8	779.1	820.8	854.1
72.5°	616.6	641.6	670.8	712.5	741.6
75°	516.6	541.6	566.6	604.1	633.3
77.5°	429.2	441.7	466.7	500.0	529.1
80°	333.3	350.0	370.8	404.2	425.0
82.5°	250.0	266.7	283.3	308.3	329.2
85°	179.2	191.7	208.3	229.2	241.7
87.5°	120.8	133.3	145.8	162.5	175.0
90°	83.3	95.8	104.2	116.7	125.0
92.5°	70.8	79.2	87.5	95.8	104.2
95°	62.5	70.8	79.2	87.5	95.8
97.5°	58.3	62.5	70.8	79.2	83.3
100°	54.2	58.3	62.5	70.8	75.0
102.5°	50.0	50.0	58.3	62.5	66.7
105°	45.8	45.8	50.0	54.2	58.3
107.5°	41.7	41.7	45.8	45.8	54.2
110°	37.5	33.3	37.5	37.5	45.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	33.3	29.2	33.3	33.3	37.5
115°	29.2	25.0	25.0	29.2	33.3
117.5°	25.0	20.8	20.8	20.8	29.2
120°	25.0	20.8	16.7	16.7	25.0
122.5°	20.8	16.7	12.5	16.7	20.8
125°	16.7	12.5	8.3	12.5	16.7
127.5°	12.5	12.5	4.2	8.3	12.5
130°	12.5	8.3	4.2	8.3	8.3
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)