

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: P384213

Luminaire Tested: **24ID-80-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384213
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-80-L850-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

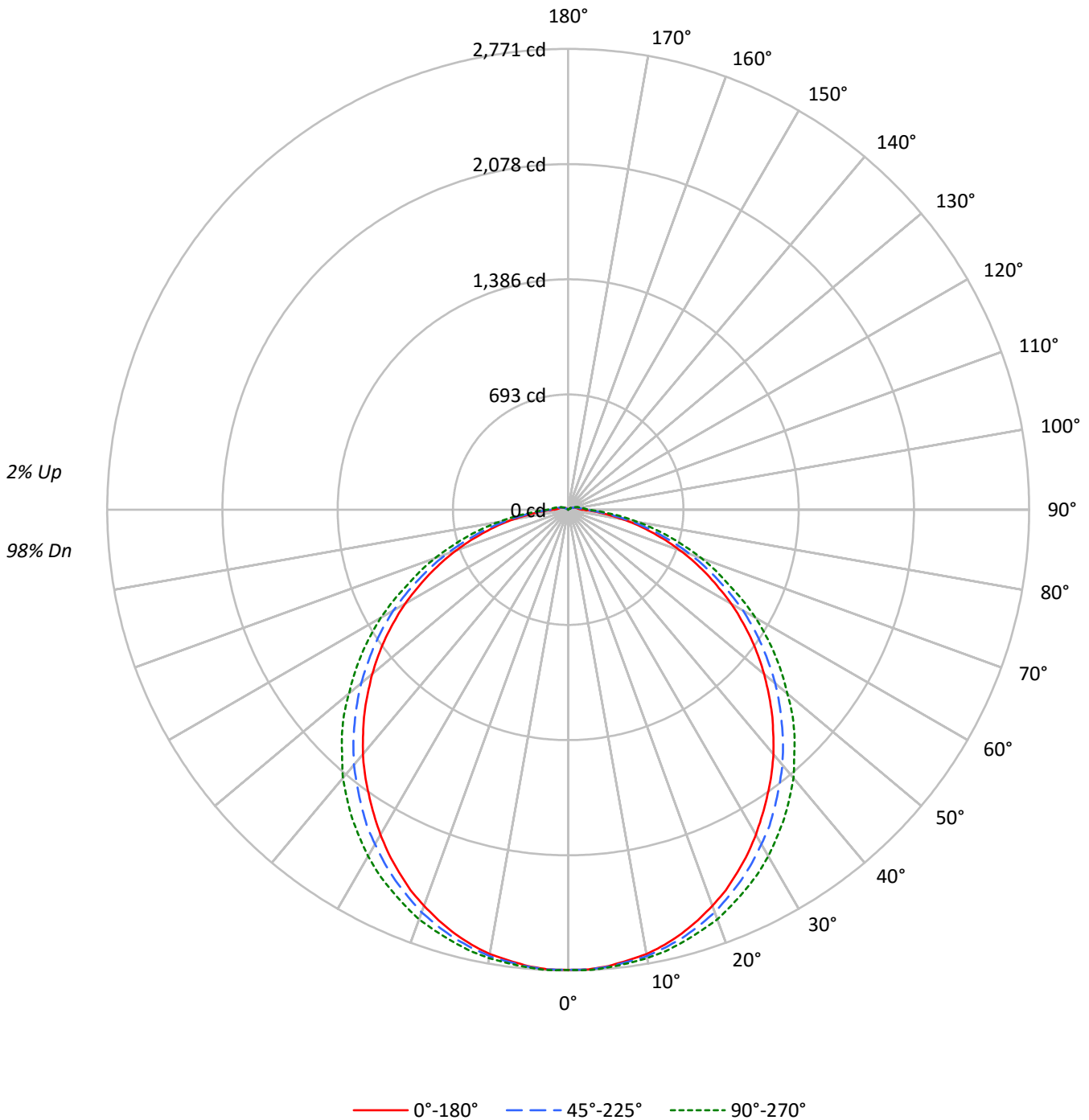
Lumens per Lamp: N/A
Luminaire Lumens: 8195.5 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 77
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°	3723	3723	3723
5°	3714	3712	3718
10°	3693	3695	3714
15°	3655	3666	3703
20°	3602	3630	3698
25°	3537	3578	3673
30°	3464	3519	3650
35°	3383	3456	3614
40°	3314	3392	3575
45°	3230	3309	3514
50°	3140	3231	3430
55°	3048	3136	3358
60°	2946	3033	3264
65°	2811	2876	3109
70°	2659	2726	3007
75°	2485	2522	2841
80°	2304	2291	2656
85°	2228	2131	2521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.1	3.2
10°-20°	751.3	9.2
20°-30°	1134.2	13.8
30°-40°	1359.0	16.6
40°-50°	1405.0	17.1
50°-60°	1272.4	15.5
60°-70°	984.6	12.0
70°-80°	604.8	7.4
80°-90°	240.3	2.9
90°-100°	87.7	1.1
100°-110°	53.9	0.7
110°-120°	27.7	0.3
120°-130°	11.8	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°	2147.5	26.2
0°-40°	3506.5	42.8
0°-60°	6183.9	75.5
0°-90°	8013.6	97.8
90°-120°	169.2	2.1
90°-150°	181.9	2.2
90°-180°	182.0	2.2
0°-180°	8195.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2767	2767	2767	2767	2767	
5°	2755	2755	2759	2759	2763	262
15°	2638	2642	2663	2680	2688	744
25°	2406	2422	2460	2501	2522	1109
35°	2090	2115	2169	2227	2264	1308
45°	1733	1753	1816	1890	1924	1335
55°	1338	1367	1421	1483	1516	1195
65°	922	943	989	1039	1064	912
75°	515	540	565	602	632	549
85°	179	191	208	228	241	178
90°	83	96	104	116	125	49
95°	62	71	79	87	96	50
105°	46	46	50	54	58	48
115°	29	25	25	29	33	29
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°	2767.2	2767.2	2767.2	2767.2	2767.2
2.5°	2767.2	2763.0	2767.2	2767.2	2771.3
5°	2754.7	2754.7	2758.9	2758.9	2763.0
7.5°	2733.9	2733.9	2742.2	2746.4	2750.6
10°	2713.2	2713.2	2725.6	2729.8	2738.1
12.5°	2679.9	2684.1	2696.5	2709.0	2717.3
15°	2638.4	2642.5	2663.3	2679.9	2688.2
17.5°	2588.5	2596.8	2621.8	2646.7	2655.0
20°	2534.5	2547.0	2576.1	2605.1	2621.8
22.5°	2476.3	2484.6	2517.9	2555.3	2571.9
25°	2405.7	2422.3	2459.7	2501.3	2522.0
27.5°	2335.1	2351.7	2393.2	2443.1	2468.0
30°	2256.1	2272.7	2322.6	2376.6	2405.7
32.5°	2173.0	2193.8	2252.0	2306.0	2335.1
35°	2089.9	2114.9	2168.9	2227.0	2264.4
37.5°	2006.8	2027.6	2085.8	2148.1	2185.5
40°	1919.6	1940.3	2002.7	2065.0	2106.5
42.5°	1824.0	1848.9	1911.3	1977.7	2011.0
45°	1732.6	1753.4	1815.7	1890.5	1923.7
47.5°	1632.9	1662.0	1720.1	1790.8	1828.2
50°	1537.3	1562.3	1624.6	1691.1	1720.1
52.5°	1437.6	1462.5	1520.7	1587.2	1620.4
55°	1337.9	1367.0	1421.0	1483.3	1516.5
57.5°	1234.0	1263.1	1317.1	1371.1	1408.5
60°	1134.3	1163.4	1213.2	1267.3	1300.5
62.5°	1022.1	1047.0	1101.1	1159.2	1184.2
65°	922.4	943.2	988.9	1038.7	1063.7
67.5°	818.5	843.4	885.0	930.7	959.8
70°	714.6	743.7	777.0	818.5	851.8
72.5°	614.9	639.9	668.9	710.5	739.6
75°	515.2	540.1	565.1	602.5	631.5
77.5°	428.0	440.4	465.4	498.6	527.7
80°	332.4	349.0	369.8	403.0	423.8
82.5°	249.3	265.9	282.5	307.5	328.2
85°	178.7	191.1	207.7	228.5	241.0
87.5°	120.5	133.0	145.4	162.0	174.5
90°	83.1	95.6	103.9	116.3	124.6
92.5°	70.6	78.9	87.3	95.6	103.9
95°	62.3	70.6	78.9	87.3	95.6
97.5°	58.2	62.3	70.6	78.9	83.1
100°	54.0	58.2	62.3	70.6	74.8
102.5°	49.9	49.9	58.2	62.3	66.5
105°	45.7	45.7	49.9	54.0	58.2
107.5°	41.5	41.5	45.7	45.7	54.0
110°	37.4	33.2	37.4	37.4	45.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	33.2	29.1	33.2	33.2	37.4
115°	29.1	24.9	24.9	29.1	33.2
117.5°	24.9	20.8	20.8	20.8	29.1
120°	24.9	20.8	16.6	16.6	24.9
122.5°	20.8	16.6	12.5	16.6	20.8
125°	16.6	12.5	8.3	12.5	16.6
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)