

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: P384211

Luminaire Tested: **24ID-80-L835-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384211
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-L835-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

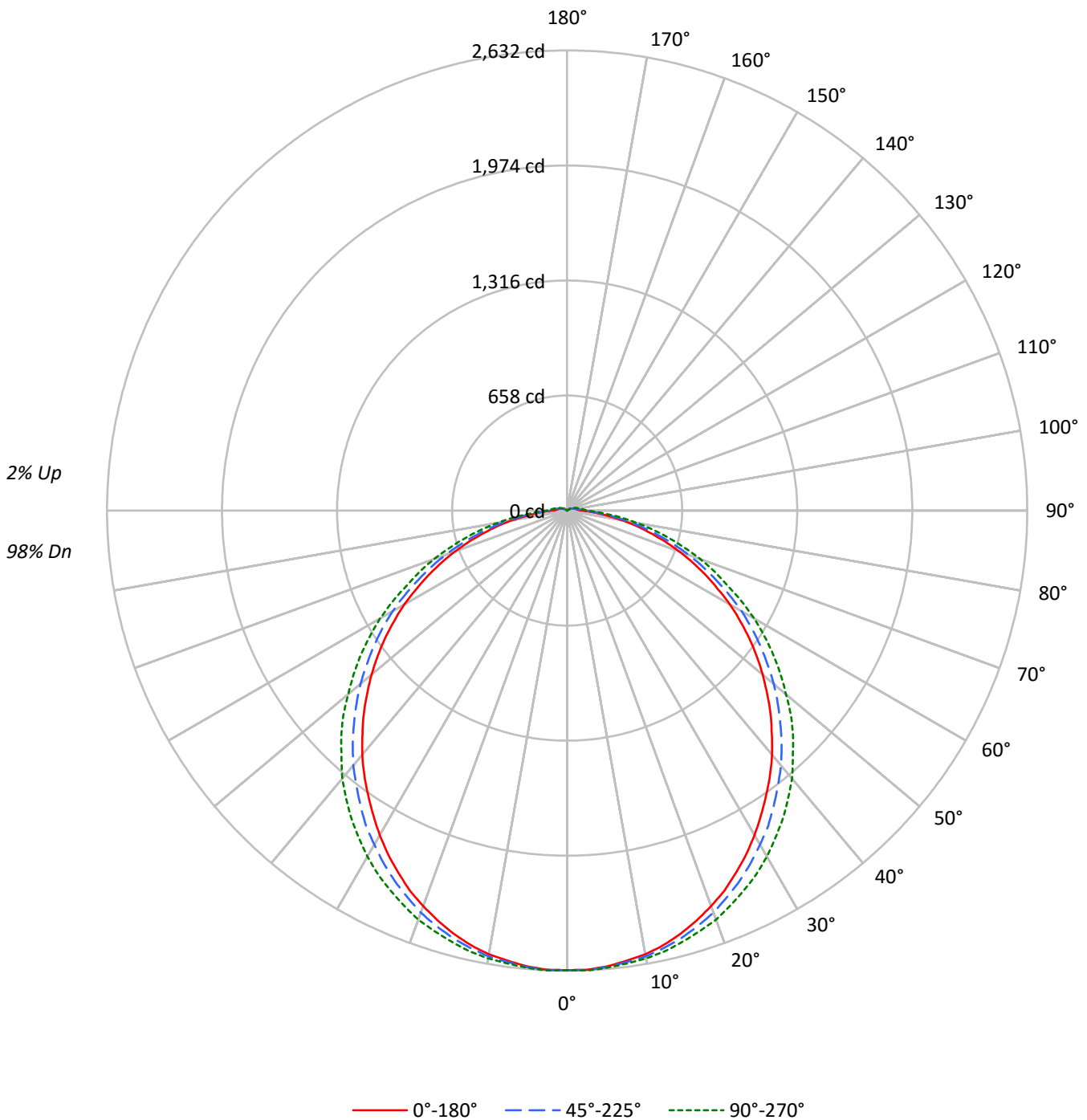
Lumens per Lamp: N/A
Luminaire Lumens: 7785.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

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°	3537	3537	3537
5°	3528	3526	3532
10°	3508	3510	3528
15°	3472	3483	3518
20°	3421	3448	3513
25°	3360	3399	3489
30°	3290	3343	3467
35°	3214	3282	3433
40°	3148	3222	3396
45°	3068	3143	3338
50°	2983	3069	3259
55°	2895	2978	3190
60°	2799	2881	3101
65°	2670	2732	2953
70°	2526	2589	2856
75°	2361	2396	2699
80°	2188	2177	2523
85°	2116	2024	2394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.9	3.2
10°-20°	713.6	9.2
20°-30°	1077.4	13.8
30°-40°	1290.9	16.6
40°-50°	1334.7	17.1
50°-60°	1208.6	15.5
60°-70°	935.3	12.0
70°-80°	574.5	7.4
80°-90°	228.3	2.9
90°-100°	83.3	1.1
100°-110°	51.2	0.7
110°-120°	26.3	0.3
120°-130°	11.2	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°	2040.0	26.2
0°-40°	3330.9	42.8
0°-60°	5874.2	75.5
0°-90°	7612.3	97.8
90°-120°	160.8	2.1
90°-150°	172.8	2.2
90°-180°	173.0	2.2
0°-180°	7785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2629	2629	2629	2629	2629	
5°	2617	2617	2621	2621	2625	248
15°	2506	2510	2530	2546	2554	706
25°	2285	2301	2336	2376	2396	1053
35°	1985	2009	2060	2116	2151	1243
45°	1646	1666	1725	1796	1827	1268
55°	1271	1298	1350	1409	1441	1136
65°	876	896	939	987	1010	867
75°	489	513	537	572	600	522
85°	170	182	197	217	229	169
90°	79	91	99	110	118	47
95°	59	67	75	83	91	47
105°	43	43	47	51	55	46
115°	28	24	24	28	32	28
125°	16	12	8	12	16	15
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°	2628.6	2628.6	2628.6	2628.6	2628.6
2.5°	2628.6	2624.6	2628.6	2628.6	2632.5
5°	2616.7	2616.7	2620.7	2620.7	2624.6
7.5°	2597.0	2597.0	2604.9	2608.8	2612.8
10°	2577.3	2577.3	2589.1	2593.1	2600.9
12.5°	2545.7	2549.6	2561.5	2573.3	2581.2
15°	2506.2	2510.2	2529.9	2545.7	2553.6
17.5°	2458.9	2466.8	2490.4	2514.1	2522.0
20°	2407.6	2419.4	2447.0	2474.6	2490.4
22.5°	2352.3	2360.2	2391.8	2427.3	2443.1
25°	2285.2	2301.0	2336.5	2376.0	2395.7
27.5°	2218.1	2233.9	2273.4	2320.7	2344.4
30°	2143.1	2158.9	2206.3	2257.6	2285.2
32.5°	2064.2	2083.9	2139.2	2190.5	2218.1
35°	1985.2	2008.9	2060.2	2115.5	2151.0
37.5°	1906.3	1926.0	1981.3	2040.5	2076.0
40°	1823.4	1843.2	1902.4	1961.6	2001.0
42.5°	1732.6	1756.3	1815.5	1878.7	1910.3
45°	1645.8	1665.6	1724.8	1795.8	1827.4
47.5°	1551.1	1578.7	1634.0	1701.1	1736.6
50°	1460.3	1484.0	1543.2	1606.4	1634.0
52.5°	1365.6	1389.3	1444.5	1507.7	1539.3
55°	1270.9	1298.5	1349.8	1409.0	1440.6
57.5°	1172.2	1199.8	1251.1	1302.4	1338.0
60°	1077.5	1105.1	1152.5	1203.8	1235.4
62.5°	970.9	994.6	1045.9	1101.2	1124.8
65°	876.2	895.9	939.3	986.7	1010.4
67.5°	777.5	801.2	840.7	884.1	911.7
70°	678.9	706.5	738.1	777.5	809.1
72.5°	584.1	607.8	635.4	674.9	702.5
75°	489.4	513.1	536.8	572.3	599.9
77.5°	406.5	418.4	442.0	473.6	501.2
80°	315.7	331.5	351.3	382.8	402.6
82.5°	236.8	252.6	268.4	292.1	311.8
85°	169.7	181.6	197.3	217.1	228.9
87.5°	114.5	126.3	138.1	153.9	165.8
90°	78.9	90.8	98.7	110.5	118.4
92.5°	67.1	75.0	82.9	90.8	98.7
95°	59.2	67.1	75.0	82.9	90.8
97.5°	55.3	59.2	67.1	75.0	78.9
100°	51.3	55.3	59.2	67.1	71.0
102.5°	47.4	47.4	55.3	59.2	63.1
105°	43.4	43.4	47.4	51.3	55.3
107.5°	39.5	39.5	43.4	43.4	51.3
110°	35.5	31.6	35.5	35.5	43.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	31.6	27.6	31.6	31.6	35.5
115°	27.6	23.7	23.7	27.6	31.6
117.5°	23.7	19.7	19.7	19.7	27.6
120°	23.7	19.7	15.8	15.8	23.7
122.5°	19.7	15.8	11.8	15.8	19.7
125°	15.8	11.8	7.9	11.8	15.8
127.5°	11.8	11.8	3.9	7.9	11.8
130°	11.8	7.9	3.9	7.9	7.9
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)