

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: P384159

Luminaire Tested: **22ID-80-L835-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384159
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-80-L835-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

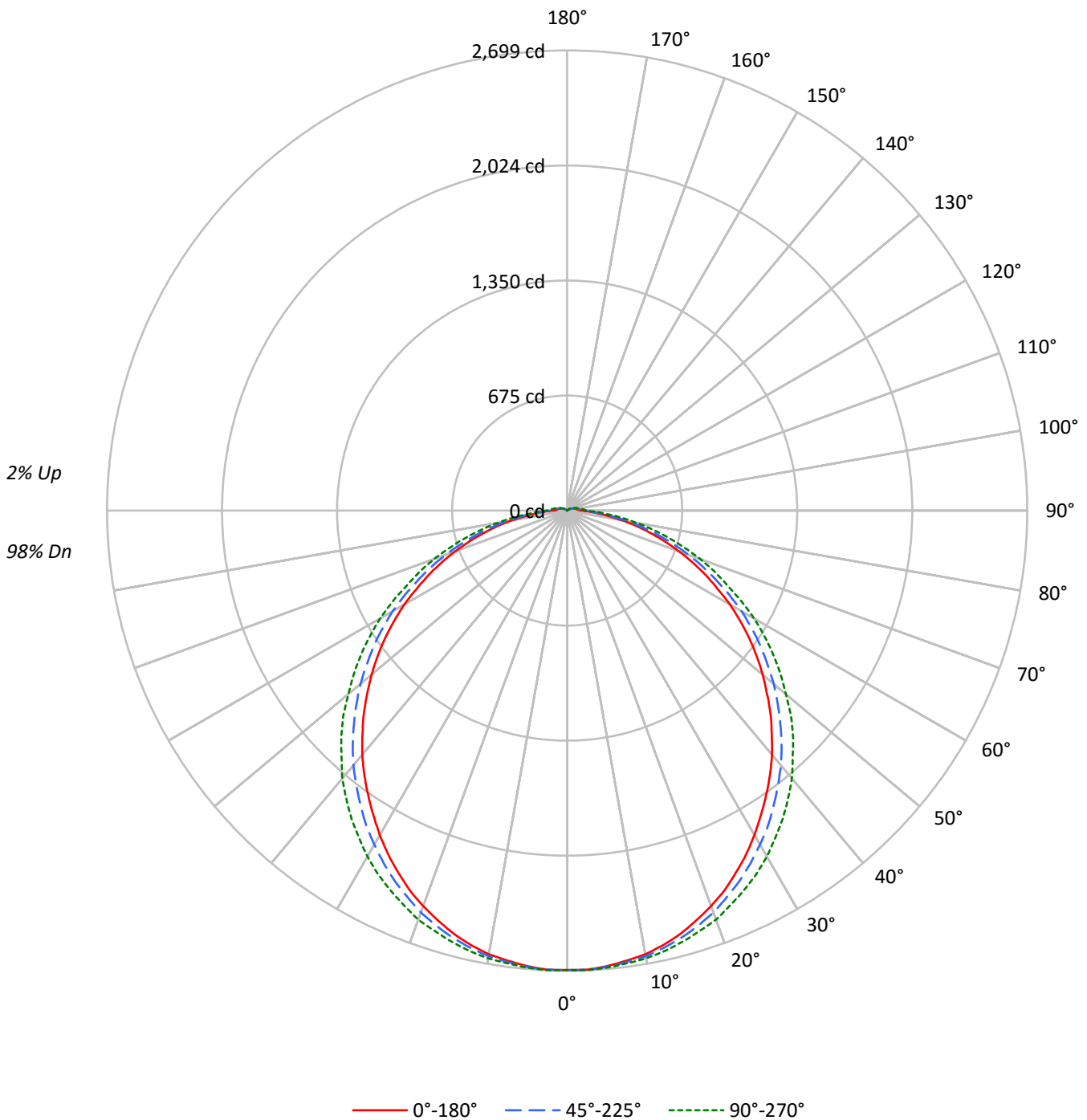
Lumens per Lamp: N/A
Luminaire Lumens: 7981.1 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 70.8
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°	7252	7252	7252
5°	7220	7220	7242
10°	7167	7178	7233
15°	7079	7113	7213
20°	6963	7033	7202
25°	6824	6922	7154
30°	6667	6797	7109
35°	6497	6664	7039
40°	6345	6528	6963
45°	6164	6355	6844
50°	5971	6189	6681
55°	5769	5988	6540
60°	5545	5770	6358
65°	5251	5444	6055
70°	4914	5124	5856
75°	4515	4690	5534
80°	4058	4183	5173
85°	3640	3733	4909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.2	3.2
10°-20°	731.6	9.2
20°-30°	1104.5	13.8
30°-40°	1323.4	16.6
40°-50°	1368.3	17.1
50°-60°	1239.1	15.5
60°-70°	958.8	12.0
70°-80°	589.0	7.4
80°-90°	234.0	2.9
90°-100°	85.4	1.1
100°-110°	52.5	0.7
110°-120°	27.0	0.3
120°-130°	11.5	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°	2091.4	26.2
0°-40°	3414.8	42.8
0°-60°	6022.2	75.5
0°-90°	7804.0	97.8
90°-120°	164.8	2.1
90°-150°	177.1	2.2
90°-180°	177.0	2.2
0°-180°	7981.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2695	2695	2695	2695	2695	
5°	2683	2683	2687	2687	2691	255
15°	2569	2573	2594	2610	2618	724
25°	2343	2359	2395	2436	2456	1080
35°	2035	2060	2112	2169	2205	1274
45°	1687	1708	1768	1841	1873	1300
55°	1303	1331	1384	1444	1477	1164
65°	898	918	963	1012	1036	889
75°	502	526	550	587	615	535
85°	174	186	202	222	235	173
90°	81	93	101	113	121	48
95°	61	69	77	85	93	48
105°	44	44	49	53	57	47
115°	28	24	24	28	32	29
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°	2694.8	2694.8	2694.8	2694.8	2694.8
2.5°	2694.8	2690.7	2694.8	2694.8	2698.8
5°	2682.6	2682.6	2686.7	2686.7	2690.7
7.5°	2662.4	2662.4	2670.5	2674.6	2678.6
10°	2642.2	2642.2	2654.3	2658.4	2666.5
12.5°	2609.8	2613.9	2626.0	2638.1	2646.2
15°	2569.4	2573.4	2593.6	2609.8	2617.9
17.5°	2520.8	2528.9	2553.2	2577.4	2585.5
20°	2468.2	2480.3	2508.7	2537.0	2553.2
22.5°	2411.6	2419.6	2452.0	2488.4	2504.6
25°	2342.8	2358.9	2395.4	2435.8	2456.1
27.5°	2274.0	2290.2	2330.6	2379.2	2403.5
30°	2197.1	2213.3	2261.8	2314.4	2342.8
32.5°	2116.2	2136.4	2193.1	2245.7	2274.0
35°	2035.3	2059.5	2112.1	2168.8	2205.2
37.5°	1954.3	1974.6	2031.2	2091.9	2128.3
40°	1869.4	1889.6	1950.3	2011.0	2051.4
42.5°	1776.3	1800.6	1861.3	1926.0	1958.4
45°	1687.3	1707.5	1768.2	1841.0	1873.4
47.5°	1590.2	1618.5	1675.1	1743.9	1780.3
50°	1497.1	1521.4	1582.1	1646.8	1675.1
52.5°	1400.0	1424.3	1480.9	1545.7	1578.0
55°	1302.9	1331.2	1383.8	1444.5	1476.9
57.5°	1201.7	1230.1	1282.7	1335.3	1371.7
60°	1104.6	1132.9	1181.5	1234.1	1266.5
62.5°	995.4	1019.6	1072.2	1128.9	1153.2
65°	898.3	918.5	963.0	1011.6	1035.8
67.5°	797.1	821.4	861.8	906.4	934.7
70°	696.0	724.3	756.6	797.1	829.5
72.5°	598.8	623.1	651.4	691.9	720.2
75°	501.7	526.0	550.3	586.7	615.0
77.5°	416.8	428.9	453.2	485.5	513.9
80°	323.7	339.9	360.1	392.5	412.7
82.5°	242.8	259.0	275.1	299.4	319.7
85°	174.0	186.1	202.3	222.5	234.7
87.5°	117.3	129.5	141.6	157.8	169.9
90°	80.9	93.1	101.2	113.3	121.4
92.5°	68.8	76.9	85.0	93.1	101.2
95°	60.7	68.8	76.9	85.0	93.1
97.5°	56.6	60.7	68.8	76.9	80.9
100°	52.6	56.6	60.7	68.8	72.8
102.5°	48.6	48.6	56.6	60.7	64.7
105°	44.5	44.5	48.6	52.6	56.6
107.5°	40.5	40.5	44.5	44.5	52.6
110°	36.4	32.4	36.4	36.4	44.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	32.4	28.3	32.4	32.4	36.4
115°	28.3	24.3	24.3	28.3	32.4
117.5°	24.3	20.2	20.2	20.2	28.3
120°	24.3	20.2	16.2	16.2	24.3
122.5°	20.2	16.2	12.1	16.2	20.2
125°	16.2	12.1	8.1	12.1	16.2
127.5°	12.1	12.1	4.0	8.1	12.1
130°	12.1	8.1	4.0	8.1	8.1
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)