

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: P384131

Luminaire Tested: **22ID-45-L835-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384131  
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-45-L835-CFD1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

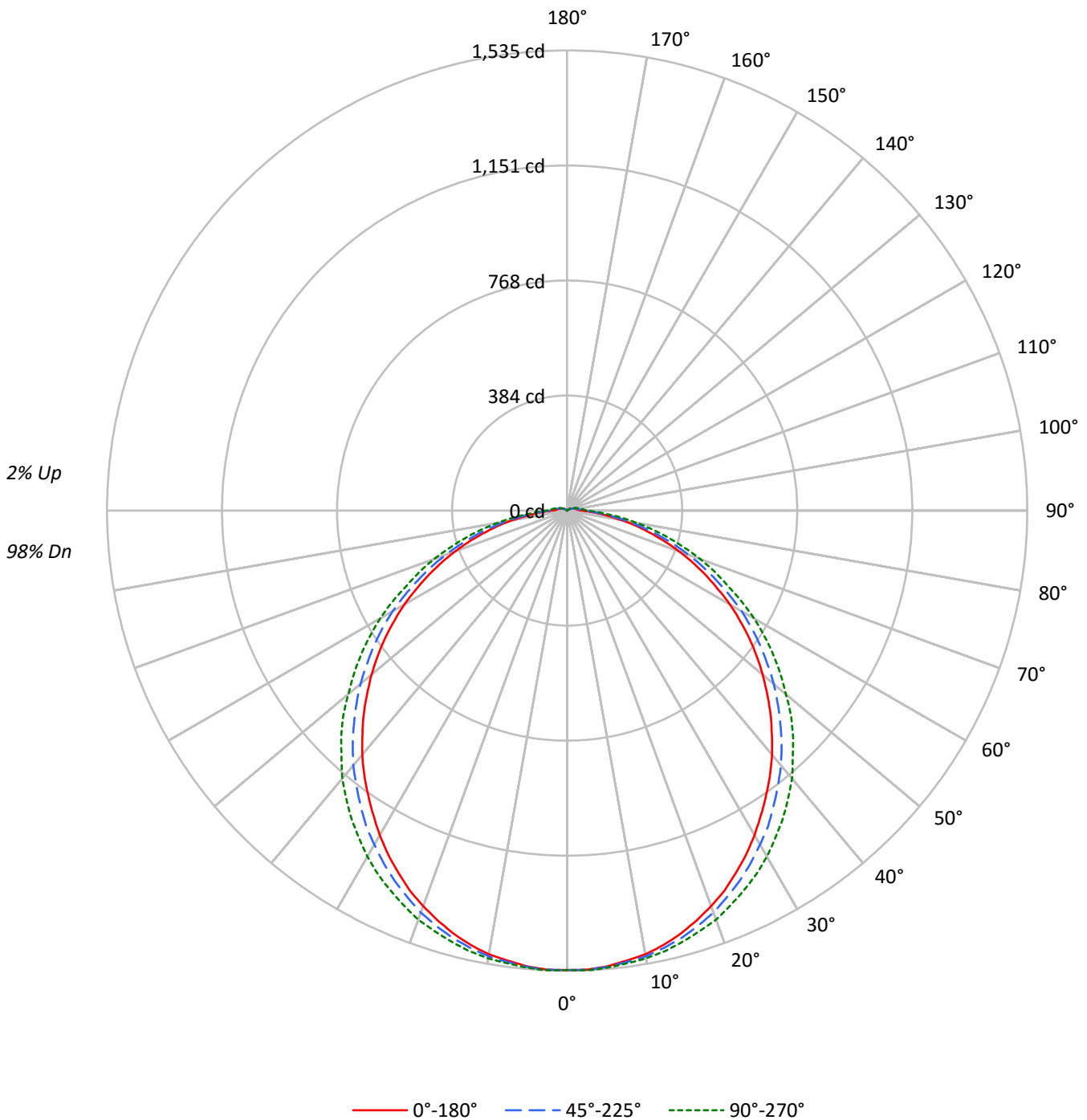
Lumens per Lamp: N/A  
Luminaire Lumens: 4539.7 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 37.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	4125	4125	4125
5°	4107	4107	4119
10°	4077	4083	4114
15°	4027	4046	4103
20°	3961	4001	4097
25°	3881	3937	4069
30°	3792	3866	4044
35°	3695	3790	4004
40°	3609	3714	3961
45°	3507	3615	3893
50°	3397	3520	3800
55°	3282	3406	3720
60°	3154	3282	3616
65°	2986	3097	3444
70°	2795	2915	3331
75°	2568	2668	3148
80°	2308	2379	2943
85°	2071	2124	2792



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.2	3.2
10°-20°	416.1	9.2
20°-30°	628.3	13.8
30°-40°	752.8	16.6
40°-50°	778.3	17.1
50°-60°	704.8	15.5
60°-70°	545.4	12.0
70°-80°	335.0	7.4
80°-90°	133.1	2.9
90°-100°	48.5	1.1
100°-110°	29.8	0.7
110°-120°	15.3	0.3
120°-130°	6.5	0.1
130°-140°	0.4	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°	1189.6	26.2
0°-40°	1942.4	42.8
0°-60°	3425.5	75.5
0°-90°	4439.1	97.8
90°-120°	93.7	2.1
90°-150°	100.7	2.2
90°-180°	101.0	2.2
0°-180°	4539.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1526	1526	1528	1528	1530	145
15°	1462	1464	1475	1484	1489	412
25°	1333	1342	1362	1386	1397	614
35°	1158	1172	1201	1234	1254	725
45°	960	971	1006	1047	1066	740
55°	741	757	787	822	840	662
65°	511	522	548	575	589	505
75°	285	299	313	334	350	304
85°	99	106	115	127	134	99
90°	46	53	58	64	69	27
95°	34	39	44	48	53	28
105°	25	25	28	30	32	27
115°	16	14	14	16	18	16
125°	9	7	5	7	9	9
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°	1532.8	1532.8	1532.8	1532.8	1532.8
2.5°	1532.8	1530.5	1532.8	1532.8	1535.1
5°	1525.9	1525.9	1528.2	1528.2	1530.5
7.5°	1514.4	1514.4	1519.0	1521.3	1523.6
10°	1502.9	1502.9	1509.8	1512.1	1516.7
12.5°	1484.5	1486.8	1493.7	1500.6	1505.2
15°	1461.5	1463.8	1475.3	1484.5	1489.1
17.5°	1433.9	1438.5	1452.3	1466.1	1470.7
20°	1404.0	1410.9	1427.0	1443.1	1452.3
22.5°	1371.7	1376.3	1394.8	1415.5	1424.7
25°	1332.6	1341.8	1362.5	1385.5	1397.1
27.5°	1293.5	1302.7	1325.7	1353.3	1367.1
30°	1249.8	1259.0	1286.6	1316.5	1332.6
32.5°	1203.7	1215.2	1247.5	1277.4	1293.5
35°	1157.7	1171.5	1201.4	1233.6	1254.4
37.5°	1111.7	1123.2	1155.4	1189.9	1210.6
40°	1063.3	1074.8	1109.4	1143.9	1166.9
42.5°	1010.4	1024.2	1058.7	1095.5	1114.0
45°	959.8	971.3	1005.8	1047.2	1065.6
47.5°	904.5	920.6	952.8	992.0	1012.7
50°	851.6	865.4	899.9	936.7	952.8
52.5°	796.3	810.2	842.4	879.2	897.6
55°	741.1	757.2	787.1	821.7	840.1
57.5°	683.6	699.7	729.6	759.5	780.2
60°	628.3	644.4	672.1	702.0	720.4
62.5°	566.2	580.0	609.9	642.1	655.9
65°	510.9	522.5	547.8	575.4	589.2
67.5°	453.4	467.2	490.2	515.6	531.7
70°	395.9	412.0	430.4	453.4	471.8
72.5°	340.6	354.4	370.6	393.6	409.7
75°	285.4	299.2	313.0	333.7	349.8
77.5°	237.1	244.0	257.8	276.2	292.3
80°	184.1	193.3	204.8	223.3	234.8
82.5°	138.1	147.3	156.5	170.3	181.8
85°	99.0	105.9	115.1	126.6	133.5
87.5°	66.7	73.7	80.6	89.8	96.7
90°	46.0	52.9	57.5	64.4	69.0
92.5°	39.1	43.7	48.3	52.9	57.5
95°	34.5	39.1	43.7	48.3	52.9
97.5°	32.2	34.5	39.1	43.7	46.0
100°	29.9	32.2	34.5	39.1	41.4
102.5°	27.6	27.6	32.2	34.5	36.8
105°	25.3	25.3	27.6	29.9	32.2
107.5°	23.0	23.0	25.3	25.3	29.9
110°	20.7	18.4	20.7	20.7	25.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	18.4	16.1	18.4	18.4	20.7
115°	16.1	13.8	13.8	16.1	18.4
117.5°	13.8	11.5	11.5	11.5	16.1
120°	13.8	11.5	9.2	9.2	13.8
122.5°	11.5	9.2	6.9	9.2	11.5
125°	9.2	6.9	4.6	6.9	9.2
127.5°	6.9	6.9	2.3	4.6	6.9
130°	6.9	4.6	2.3	4.6	4.6
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)