

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: P384247

Luminaire Tested: **14ID-50-L835-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14ID-50-L835-CFD2  
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

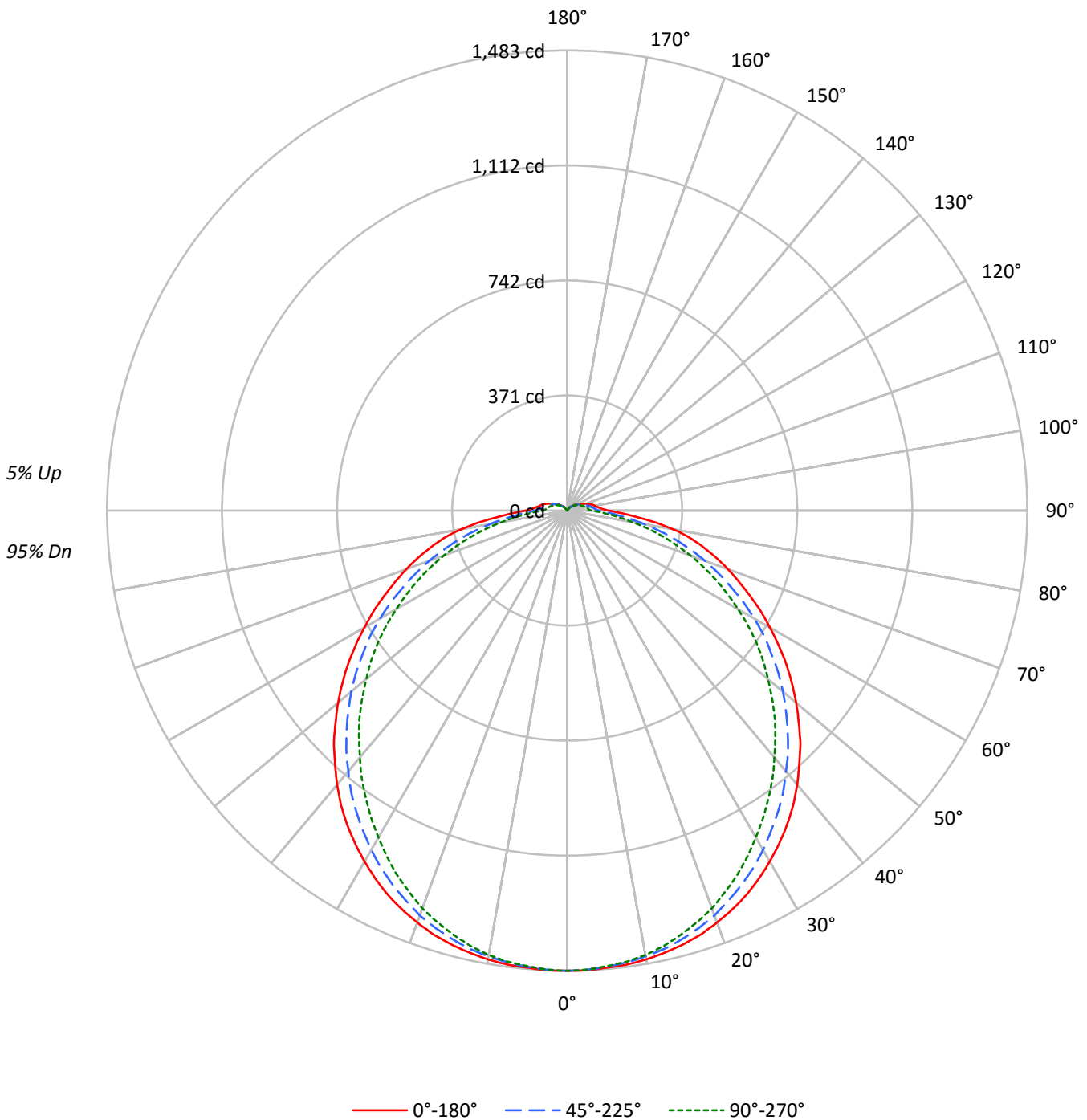
Lumens per Lamp: N/A  
Luminaire Lumens: 4811.0 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 43.1  
Input Voltage (V): NR  
Input Current (Ain): 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3992	3992	3992
5°	3979	3936	3923
10°	3984	3886	3860
15°	3986	3832	3774
20°	3986	3774	3684
25°	3981	3696	3572
30°	3963	3615	3448
35°	3944	3528	3328
40°	3914	3431	3202
45°	3885	3334	3088
50°	3844	3234	2951
55°	3816	3115	2824
60°	3790	2987	2657
65°	3803	2819	2482
70°	3891	2651	2280
75°	4085	2427	2023
80°	4352	2132	1702
85°	4570	1843	1393



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.4	2.9
10°-20°	403.7	8.4
20°-30°	613.2	12.7
30°-40°	740.6	15.4
40°-50°	775.2	16.1
50°-60°	719.3	15.0
60°-70°	582.6	12.1
70°-80°	393.2	8.2
80°-90°	190.0	3.9
90°-100°	95.6	2.0
100°-110°	69.5	1.4
110°-120°	46.4	1.0
120°-130°	26.9	0.6
130°-140°	13.6	0.3
140°-150°	1.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1157.2	24.1
0°-40°	1897.9	39.4
0°-60°	3392.3	70.5
0°-90°	4558.0	94.7
90°-120°	211.4	4.4
90°-150°	252.9	5.3
90°-180°	253.0	5.3
0°-180°	4811.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1483	1483	1483	1483	1483	
5°	1478	1476	1476	1474	1474	141
15°	1447	1440	1430	1420	1415	409
25°	1367	1355	1330	1306	1296	630
35°	1236	1219	1185	1148	1131	773
45°	1063	1044	1005	964	947	819
55°	862	842	804	765	745	770
65°	651	626	583	551	529	646
75°	454	408	362	335	316	478
85°	218	189	160	146	131	206
90°	131	119	102	92	78	75
95°	104	97	87	78	68	82
105°	78	73	66	58	53	83
115°	53	49	49	41	41	53
125°	34	29	32	27	29	30
135°	19	17	17	17	19	15
145°	0	0	0	0	0	1
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°	1483.3	1483.3	1483.3	1483.3	1483.3
2.5°	1483.3	1480.9	1480.9	1480.9	1480.9
5°	1478.5	1476.0	1476.0	1473.6	1473.6
7.5°	1476.0	1471.2	1468.8	1466.3	1466.3
10°	1468.8	1463.9	1459.0	1454.2	1454.2
12.5°	1459.0	1454.2	1446.9	1437.2	1437.2
15°	1446.9	1439.6	1429.9	1420.2	1415.3
17.5°	1432.3	1425.1	1410.5	1395.9	1391.1
20°	1412.9	1403.2	1388.6	1369.2	1364.4
22.5°	1391.1	1381.4	1359.5	1340.1	1330.4
25°	1366.8	1354.7	1330.4	1306.1	1296.4
27.5°	1337.7	1325.5	1298.8	1269.7	1257.5
30°	1306.1	1291.5	1262.4	1230.8	1216.3
32.5°	1272.1	1255.1	1223.6	1189.6	1175.0
35°	1235.7	1218.7	1184.7	1148.3	1131.3
37.5°	1196.9	1179.9	1143.4	1104.6	1087.6
40°	1153.2	1136.2	1097.3	1058.5	1039.1
42.5°	1107.0	1092.5	1053.6	1012.3	992.9
45°	1063.3	1043.9	1005.1	963.8	946.8
47.5°	1012.3	997.8	956.5	915.2	895.8
50°	963.8	946.8	908.0	866.7	844.8
52.5°	912.8	898.2	857.0	815.7	796.3
55°	861.8	842.4	803.6	764.7	745.3
57.5°	808.4	791.4	752.6	716.2	691.9
60°	755.0	738.0	696.7	662.8	636.1
62.5°	704.0	684.6	640.9	604.5	582.6
65°	650.6	626.3	582.6	551.1	529.2
67.5°	599.6	570.5	526.8	497.7	475.8
70°	551.1	517.1	473.4	444.3	422.4
72.5°	502.5	461.3	415.1	388.4	369.0
75°	454.0	407.9	361.7	335.0	315.6
77.5°	405.4	352.0	305.9	284.0	264.6
80°	347.2	296.2	252.5	233.1	213.6
82.5°	281.6	240.3	203.9	184.5	169.9
85°	218.5	189.4	160.2	145.7	131.1
87.5°	169.9	148.1	126.2	114.1	102.0
90°	131.1	119.0	102.0	92.3	77.7
92.5°	114.1	104.4	92.3	82.5	70.4
95°	104.4	97.1	87.4	77.7	68.0
97.5°	94.7	89.8	80.1	72.8	63.1
100°	89.8	82.5	75.3	68.0	60.7
102.5°	85.0	77.7	70.4	63.1	58.3
105°	77.7	72.8	65.5	58.3	53.4
107.5°	72.8	65.5	60.7	53.4	51.0
110°	65.5	60.7	55.8	51.0	48.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	58.3	55.8	51.0	46.1	43.7
115°	53.4	48.6	48.6	41.3	41.3
117.5°	48.6	43.7	43.7	38.8	38.8
120°	41.3	38.8	38.8	34.0	34.0
122.5°	36.4	34.0	34.0	31.6	31.6
125°	34.0	29.1	31.6	26.7	29.1
127.5°	29.1	26.7	26.7	24.3	26.7
130°	24.3	21.8	21.8	21.8	24.3
132.5°	21.8	19.4	19.4	19.4	21.8
135°	19.4	17.0	17.0	17.0	19.4
137.5°	17.0	14.6	12.1	14.6	17.0
140°	14.6	12.1	9.7	12.1	14.6
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)