

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: P384076

Luminaire Tested: **14ID-45-L840-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384076  
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: 14ID-45-L840-CFD1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

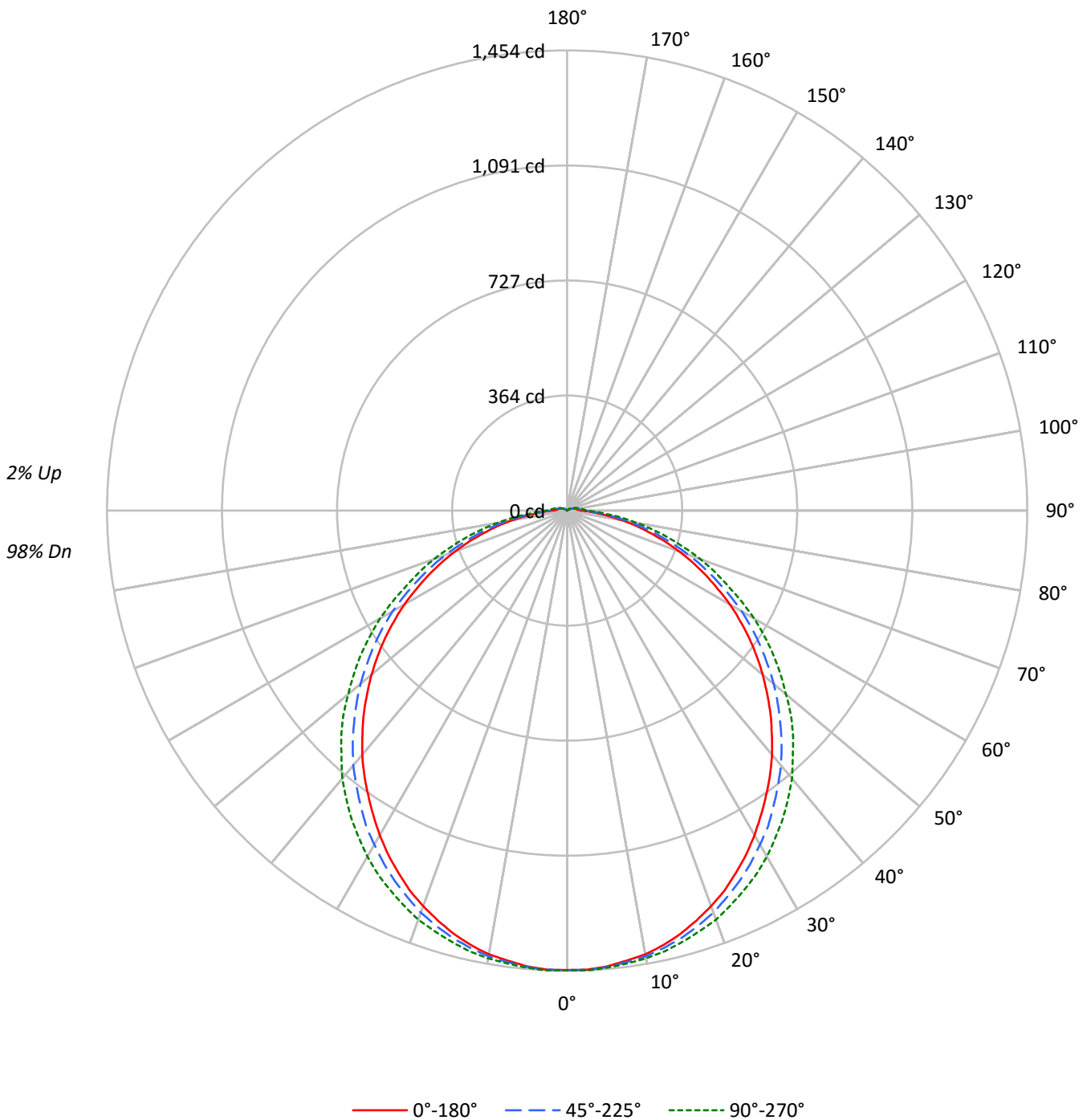
Lumens per Lamp: N/A  
Luminaire Lumens: 4300.3 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 38.5  
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°	3907	3907	3907
5°	3897	3885	3888
10°	3876	3858	3869
15°	3835	3818	3844
20°	3780	3770	3824
25°	3712	3705	3782
30°	3635	3632	3742
35°	3551	3555	3688
40°	3477	3476	3629
45°	3389	3377	3546
50°	3295	3281	3437
55°	3198	3165	3337
60°	3092	3039	3210
65°	2950	2853	3015
70°	2791	2668	2861
75°	2608	2418	2628
80°	2417	2121	2341
85°	2337	1827	1999



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.5	3.2
10°-20°	394.2	9.2
20°-30°	595.1	13.8
30°-40°	713.1	16.6
40°-50°	737.2	17.1
50°-60°	667.6	15.5
60°-70°	516.6	12.0
70°-80°	317.3	7.4
80°-90°	126.1	2.9
90°-100°	46.0	1.1
100°-110°	28.3	0.7
110°-120°	14.5	0.3
120°-130°	6.2	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°	1126.8	26.2
0°-40°	1839.9	42.8
0°-60°	3244.8	75.5
0°-90°	4204.8	97.8
90°-120°	88.8	2.1
90°-150°	95.4	2.2
90°-180°	95.0	2.2
0°-180°	4300.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1445	1445	1448	1448	1450	137
15°	1384	1387	1398	1406	1411	390
25°	1262	1271	1291	1312	1323	582
35°	1097	1110	1138	1169	1188	687
45°	909	920	953	992	1009	701
55°	702	717	746	778	796	627
65°	484	495	519	545	558	479
75°	270	283	296	316	331	288
85°	94	100	109	120	126	93
90°	44	50	54	61	65	26
95°	33	37	41	46	50	26
105°	24	24	26	28	30	25
115°	15	13	13	15	17	15
125°	9	6	4	6	9	8
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°	1452.0	1452.0	1452.0	1452.0	1452.0
2.5°	1452.0	1449.8	1452.0	1452.0	1454.2
5°	1445.4	1445.4	1447.6	1447.6	1449.8
7.5°	1434.5	1434.5	1438.9	1441.1	1443.3
10°	1423.6	1423.6	1430.2	1432.4	1436.7
12.5°	1406.2	1408.4	1414.9	1421.5	1425.8
15°	1384.4	1386.6	1397.5	1406.2	1410.6
17.5°	1358.2	1362.6	1375.7	1388.8	1393.1
20°	1329.9	1336.4	1351.7	1367.0	1375.7
22.5°	1299.4	1303.7	1321.2	1340.8	1349.5
25°	1262.3	1271.0	1290.6	1312.4	1323.4
27.5°	1225.2	1234.0	1255.8	1281.9	1295.0
30°	1183.8	1192.5	1218.7	1247.0	1262.3
32.5°	1140.2	1151.1	1181.6	1210.0	1225.2
35°	1096.6	1109.7	1138.0	1168.6	1188.2
37.5°	1053.0	1063.9	1094.4	1127.1	1146.8
40°	1007.2	1018.1	1050.8	1083.5	1105.3
42.5°	957.1	970.2	1002.9	1037.8	1055.2
45°	909.1	920.0	952.7	992.0	1009.4
47.5°	856.8	872.1	902.6	939.6	959.3
50°	806.7	819.7	852.4	887.3	902.6
52.5°	754.3	767.4	797.9	832.8	850.3
55°	702.0	717.3	745.6	778.3	795.8
57.5°	647.5	662.8	691.1	719.4	739.1
60°	595.2	610.4	636.6	664.9	682.4
62.5°	536.3	549.4	577.7	608.3	621.3
65°	484.0	494.9	518.9	545.0	558.1
67.5°	429.5	442.6	464.4	488.4	503.6
70°	375.0	390.2	407.7	429.5	446.9
72.5°	322.7	335.7	351.0	372.8	388.1
75°	270.3	283.4	296.5	316.1	331.4
77.5°	224.6	231.1	244.2	261.6	276.9
80°	174.4	183.1	194.0	211.5	222.4
82.5°	130.8	139.5	148.3	161.3	172.2
85°	93.7	100.3	109.0	119.9	126.4
87.5°	63.2	69.8	76.3	85.0	91.6
90°	43.6	50.1	54.5	61.0	65.4
92.5°	37.1	41.4	45.8	50.1	54.5
95°	32.7	37.1	41.4	45.8	50.1
97.5°	30.5	32.7	37.1	41.4	43.6
100°	28.3	30.5	32.7	37.1	39.2
102.5°	26.2	26.2	30.5	32.7	34.9
105°	24.0	24.0	26.2	28.3	30.5
107.5°	21.8	21.8	24.0	24.0	28.3
110°	19.6	17.4	19.6	19.6	24.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	17.4	15.3	17.4	17.4	19.6
115°	15.3	13.1	13.1	15.3	17.4
117.5°	13.1	10.9	10.9	10.9	15.3
120°	13.1	10.9	8.7	8.7	13.1
122.5°	10.9	8.7	6.5	8.7	10.9
125°	8.7	6.5	4.4	6.5	8.7
127.5°	6.5	6.5	2.2	4.4	6.5
130°	6.5	4.4	2.2	4.4	4.4
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)