

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: P384073

Luminaire Tested: **14ID-40-L850-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384073  
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-40-L850-CFD1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

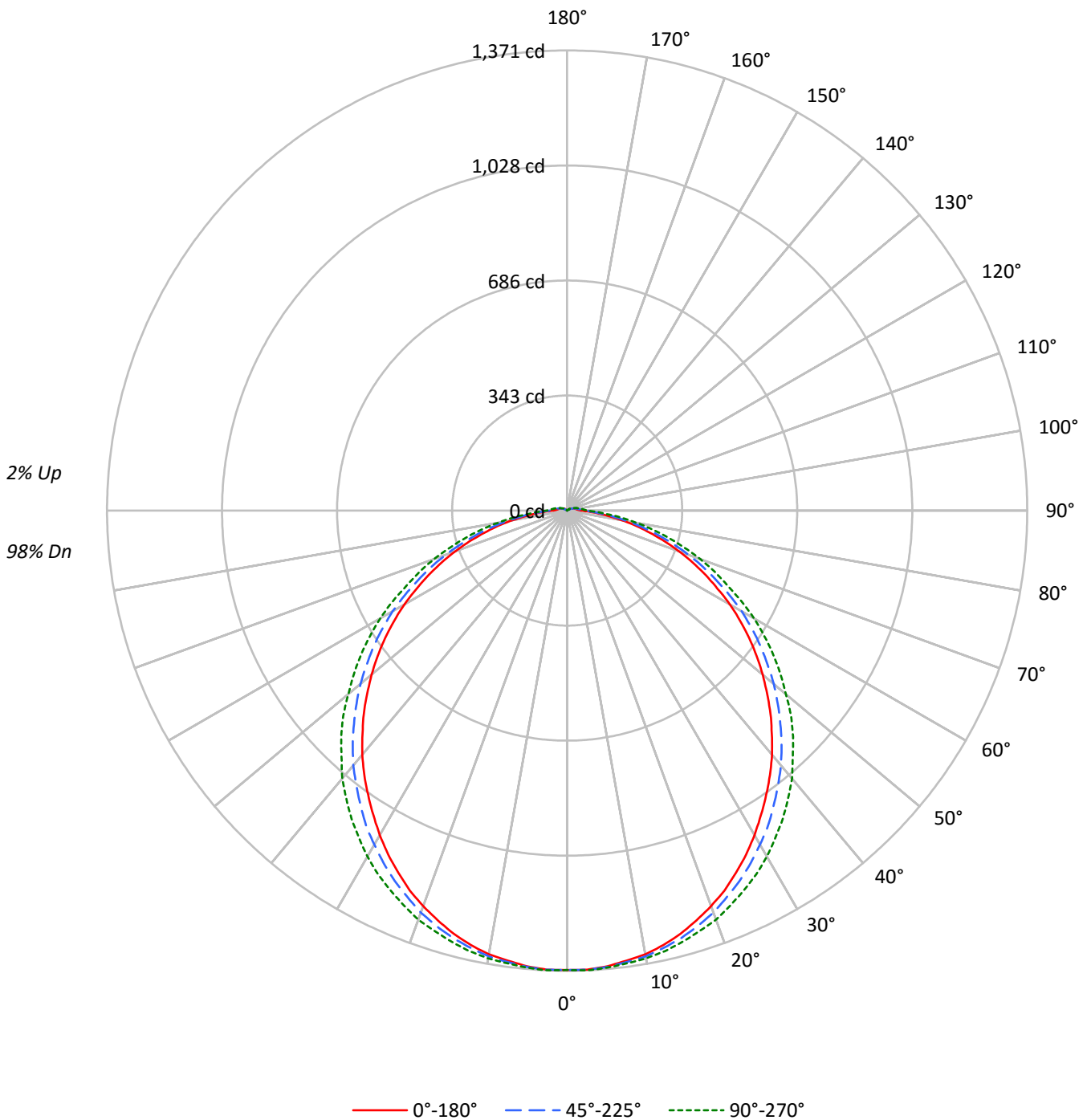
Lumens per Lamp: N/A  
Luminaire Lumens: 4054.6 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 33.4  
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	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°	3684	3684	3684
5°	3675	3663	3666
10°	3654	3638	3648
15°	3616	3600	3624
20°	3564	3555	3605
25°	3500	3493	3566
30°	3427	3425	3529
35°	3348	3352	3477
40°	3279	3278	3422
45°	3196	3184	3343
50°	3107	3093	3241
55°	3016	2984	3146
60°	2915	2865	3026
65°	2781	2690	2843
70°	2632	2516	2698
75°	2459	2280	2478
80°	2279	1999	2207
85°	2205	1724	1885



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.7	3.2
10°-20°	371.7	9.2
20°-30°	561.1	13.8
30°-40°	672.3	16.6
40°-50°	695.1	17.1
50°-60°	629.5	15.5
60°-70°	487.1	12.0
70°-80°	299.2	7.4
80°-90°	118.9	2.9
90°-100°	43.4	1.1
100°-110°	26.7	0.7
110°-120°	13.7	0.3
120°-130°	5.9	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°	1062.5	26.2
0°-40°	1734.8	42.8
0°-60°	3059.4	75.5
0°-90°	3964.6	97.8
90°-120°	83.7	2.1
90°-150°	90.0	2.2
90°-180°	90.0	2.2
0°-180°	4054.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1363	1363	1365	1365	1367	129
15°	1305	1307	1318	1326	1330	368
25°	1190	1198	1217	1238	1248	548
35°	1034	1046	1073	1102	1120	647
45°	857	868	898	935	952	661
55°	662	676	703	734	750	591
65°	456	467	489	514	526	451
75°	255	267	280	298	312	272
85°	88	95	103	113	119	88
90°	41	47	51	58	62	24
95°	31	35	39	43	47	25
105°	23	23	25	27	29	24
115°	14	12	12	14	16	15
125°	8	6	4	6	8	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°	1369.0	1369.0	1369.0	1369.0	1369.0
2.5°	1369.0	1367.0	1369.0	1369.0	1371.1
5°	1362.9	1362.9	1364.9	1364.9	1367.0
7.5°	1352.6	1352.6	1356.7	1358.7	1360.8
10°	1342.3	1342.3	1348.5	1350.5	1354.6
12.5°	1325.9	1327.9	1334.1	1340.2	1344.4
15°	1305.3	1307.4	1317.6	1325.9	1330.0
17.5°	1280.6	1284.7	1297.1	1309.4	1313.5
20°	1253.9	1260.1	1274.5	1288.9	1297.1
22.5°	1225.1	1229.2	1245.7	1264.2	1272.4
25°	1190.2	1198.4	1216.9	1237.5	1247.7
27.5°	1155.2	1163.5	1184.0	1208.7	1221.0
30°	1116.2	1124.4	1149.1	1175.8	1190.2
32.5°	1075.1	1085.3	1114.1	1140.8	1155.2
35°	1034.0	1046.3	1073.0	1101.8	1120.3
37.5°	992.8	1003.1	1031.9	1062.7	1081.2
40°	949.7	960.0	990.8	1021.6	1042.2
42.5°	902.4	914.7	945.6	978.5	994.9
45°	857.2	867.5	898.3	935.3	951.7
47.5°	807.8	822.2	851.0	886.0	904.5
50°	760.6	772.9	803.7	836.6	851.0
52.5°	711.2	723.6	752.3	785.2	801.7
55°	661.9	676.3	703.0	733.8	750.3
57.5°	610.5	624.9	651.6	678.3	696.8
60°	561.2	575.6	600.2	627.0	643.4
62.5°	505.7	518.0	544.7	573.5	585.8
65°	456.3	466.6	489.2	513.9	526.2
67.5°	405.0	417.3	437.8	460.5	474.8
70°	353.6	367.9	384.4	405.0	421.4
72.5°	304.2	316.6	330.9	351.5	365.9
75°	254.9	267.2	279.6	298.1	312.4
77.5°	211.7	217.9	230.2	246.7	261.1
80°	164.4	172.7	182.9	199.4	209.7
82.5°	123.3	131.6	139.8	152.1	162.4
85°	88.4	94.6	102.8	113.1	119.2
87.5°	59.6	65.8	71.9	80.2	86.3
90°	41.1	47.3	51.4	57.6	61.7
92.5°	34.9	39.1	43.2	47.3	51.4
95°	30.8	34.9	39.1	43.2	47.3
97.5°	28.8	30.8	34.9	39.1	41.1
100°	26.7	28.8	30.8	34.9	37.0
102.5°	24.7	24.7	28.8	30.8	32.9
105°	22.6	22.6	24.7	26.7	28.8
107.5°	20.6	20.6	22.6	22.6	26.7
110°	18.5	16.4	18.5	18.5	22.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	16.4	14.4	16.4	16.4	18.5
115°	14.4	12.3	12.3	14.4	16.4
117.5°	12.3	10.3	10.3	10.3	14.4
120°	12.3	10.3	8.2	8.2	12.3
122.5°	10.3	8.2	6.2	8.2	10.3
125°	8.2	6.2	4.1	6.2	8.2
127.5°	6.2	6.2	2.1	4.1	6.2
130°	6.2	4.1	2.1	4.1	4.1
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)