

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: P384577

Luminaire Tested: **14ID-40-L850-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384577  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14ID-40-L850-CFD3  
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

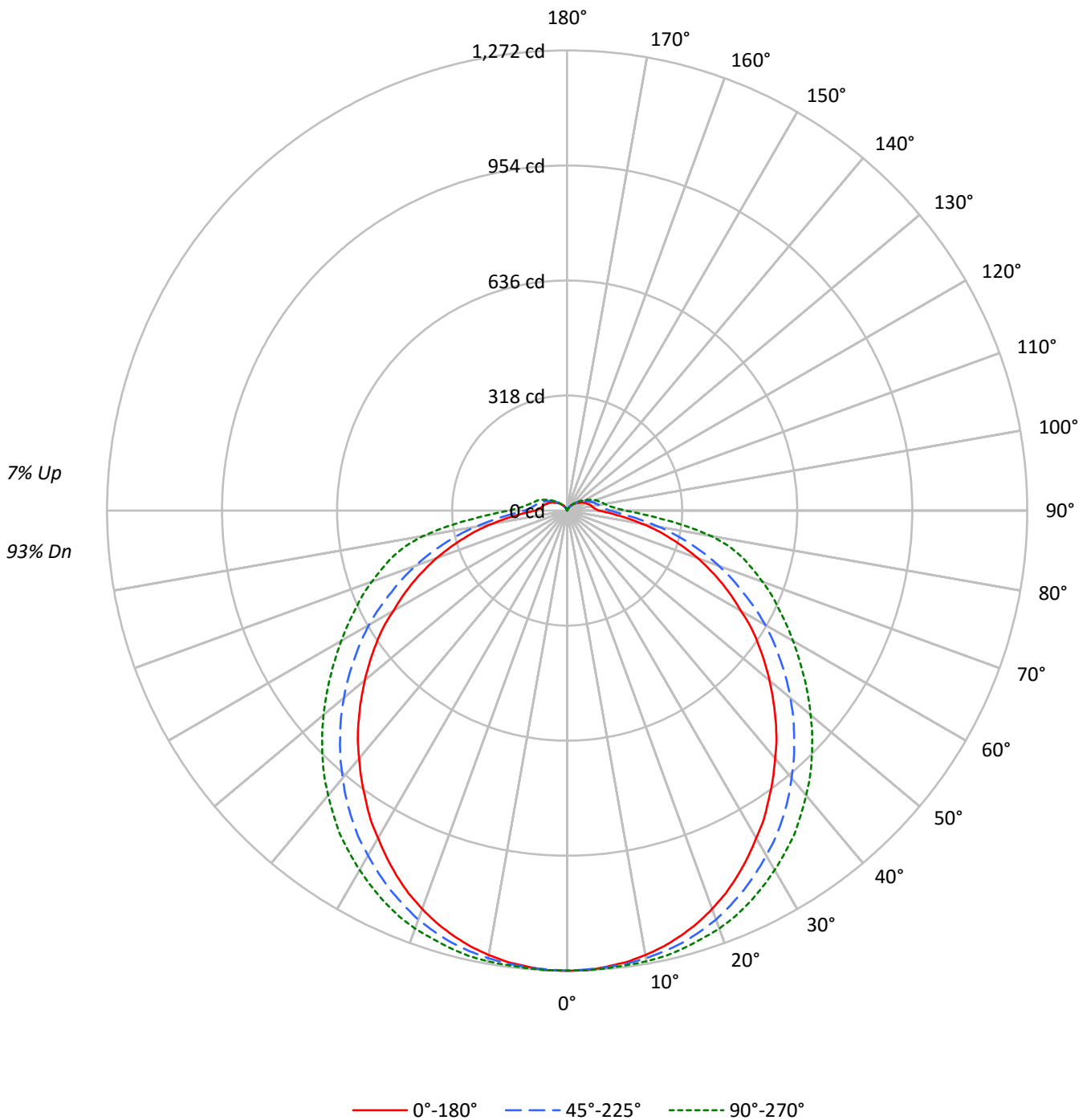
Lumens per Lamp: N/A  
Luminaire Lumens: 4450.2 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 33.4  
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

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

	0°	45°	90°
0°	3422	3422	3422
5°	3399	3358	3356
10°	3371	3304	3311
15°	3332	3251	3268
20°	3281	3188	3227
25°	3214	3113	3175
30°	3135	3033	3116
35°	3060	2955	3059
40°	2985	2861	2984
45°	2917	2767	2912
50°	2845	2670	2835
55°	2782	2564	2762
60°	2694	2462	2709
65°	2642	2320	2677
70°	2578	2184	2681
75°	2489	1998	2698
80°	2412	1770	2589
85°	2439	1497	2079



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.6	2.7
10°-20°	348.5	7.8
20°-30°	532.4	12.0
30°-40°	648.1	14.6
40°-50°	685.0	15.4
50°-60°	646.5	14.5
60°-70°	544.0	12.2
70°-80°	392.2	8.8
80°-90°	206.8	4.6
90°-100°	110.7	2.5
100°-110°	84.1	1.9
110°-120°	61.0	1.4
120°-130°	38.3	0.9
130°-140°	20.7	0.5
140°-150°	9.0	0.2
150°-160°	2.4	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1001.4	22.5
0°-40°	1649.5	37.1
0°-60°	2981.0	67.0
0°-90°	4123.9	92.7
90°-120°	255.8	5.7
90°-150°	323.8	7.3
90°-180°	326.0	7.3
0°-180°	4450.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1265	1265	1267	1267	1270	120
15°	1216	1221	1236	1245	1252	343
25°	1114	1127	1156	1183	1194	513
35°	972	994	1039	1079	1094	609
45°	814	839	888	937	957	629
55°	646	675	719	772	799	577
65°	470	497	537	604	646	465
75°	295	320	351	420	502	313
85°	135	153	171	213	260	127
90°	87	102	118	140	160	50
95°	76	87	100	113	122	60
105°	64	71	80	89	93	67
115°	51	56	62	67	71	51
125°	38	38	44	44	47	34
135°	27	24	27	27	29	20
145°	16	13	13	13	16	10
155°	7	7	2	4	7	3
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°	1271.7	1271.7	1271.7	1271.7	1271.7
2.5°	1271.7	1269.5	1269.5	1269.5	1271.7
5°	1265.1	1265.1	1267.3	1267.3	1269.5
7.5°	1258.4	1258.4	1262.8	1265.1	1267.3
10°	1247.3	1249.5	1256.2	1260.6	1265.1
12.5°	1234.0	1236.2	1247.3	1256.2	1260.6
15°	1216.2	1220.7	1236.2	1245.1	1251.7
17.5°	1196.3	1202.9	1220.7	1234.0	1240.6
20°	1171.8	1180.7	1202.9	1220.7	1229.5
22.5°	1145.2	1154.1	1180.7	1202.9	1214.0
25°	1114.1	1127.4	1156.3	1182.9	1194.0
27.5°	1080.8	1096.4	1129.7	1160.7	1171.8
30°	1045.3	1063.1	1100.8	1134.1	1147.4
32.5°	1012.0	1029.8	1072.0	1107.5	1120.8
35°	972.1	994.3	1038.7	1078.6	1094.2
37.5°	934.4	956.6	1003.2	1045.3	1060.9
40°	894.4	916.6	965.4	1012.0	1027.6
42.5°	856.7	878.9	927.7	976.5	994.3
45°	814.5	838.9	887.8	936.6	956.6
47.5°	772.3	796.8	847.8	898.9	918.8
50°	730.2	756.8	805.6	856.7	878.9
52.5°	688.0	714.6	763.5	816.7	838.9
55°	645.8	674.7	719.1	772.3	799.0
57.5°	603.7	632.5	676.9	732.4	759.0
60°	554.8	588.1	632.5	690.2	721.3
62.5°	512.7	541.5	585.9	645.8	683.6
65°	470.5	497.1	537.1	603.7	645.8
67.5°	426.1	455.0	492.7	554.8	612.6
70°	384.0	408.4	446.1	510.5	574.8
72.5°	339.6	364.0	399.5	466.1	537.1
75°	295.2	319.6	350.7	419.5	501.6
77.5°	255.2	275.2	304.1	370.6	459.4
80°	210.8	230.8	257.4	317.4	403.9
82.5°	170.9	188.6	210.8	264.1	332.9
85°	135.4	153.1	170.9	213.1	259.7
87.5°	108.8	122.1	139.8	170.9	202.0
90°	86.6	102.1	117.6	139.8	159.8
92.5°	79.9	93.2	106.5	124.3	137.6
95°	75.5	86.6	99.9	113.2	122.1
97.5°	71.0	82.1	93.2	106.5	113.2
100°	68.8	77.7	88.8	99.9	104.3
102.5°	66.6	73.2	84.3	93.2	99.9
105°	64.4	71.0	79.9	88.8	93.2
107.5°	59.9	66.6	75.5	84.3	88.8
110°	57.7	62.1	71.0	77.7	84.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	55.5	59.9	66.6	73.2	77.7
115°	51.0	55.5	62.1	66.6	71.0
117.5°	48.8	51.0	57.7	59.9	64.4
120°	44.4	46.6	53.3	55.5	57.7
122.5°	39.9	42.2	48.8	48.8	53.3
125°	37.7	37.7	44.4	44.4	46.6
127.5°	35.5	35.5	39.9	39.9	42.2
130°	31.1	31.1	35.5	35.5	35.5
132.5°	28.9	26.6	31.1	31.1	33.3
135°	26.6	24.4	26.6	26.6	28.9
137.5°	22.2	22.2	24.4	22.2	24.4
140°	20.0	17.8	20.0	20.0	22.2
142.5°	17.8	15.5	17.8	15.5	17.8
145°	15.5	13.3	13.3	13.3	15.5
147.5°	13.3	11.1	11.1	11.1	13.3
150°	11.1	8.9	8.9	8.9	11.1
152.5°	8.9	6.7	4.4	6.7	8.9
155°	6.7	6.7	2.2	4.4	6.7
157.5°	4.4	4.4	0.0	2.2	4.4
160°	2.2	2.2	0.0	2.2	2.2
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)