

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: P384072

Luminaire Tested: **14ID-40-L840-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384072  
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-L840-CFD1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

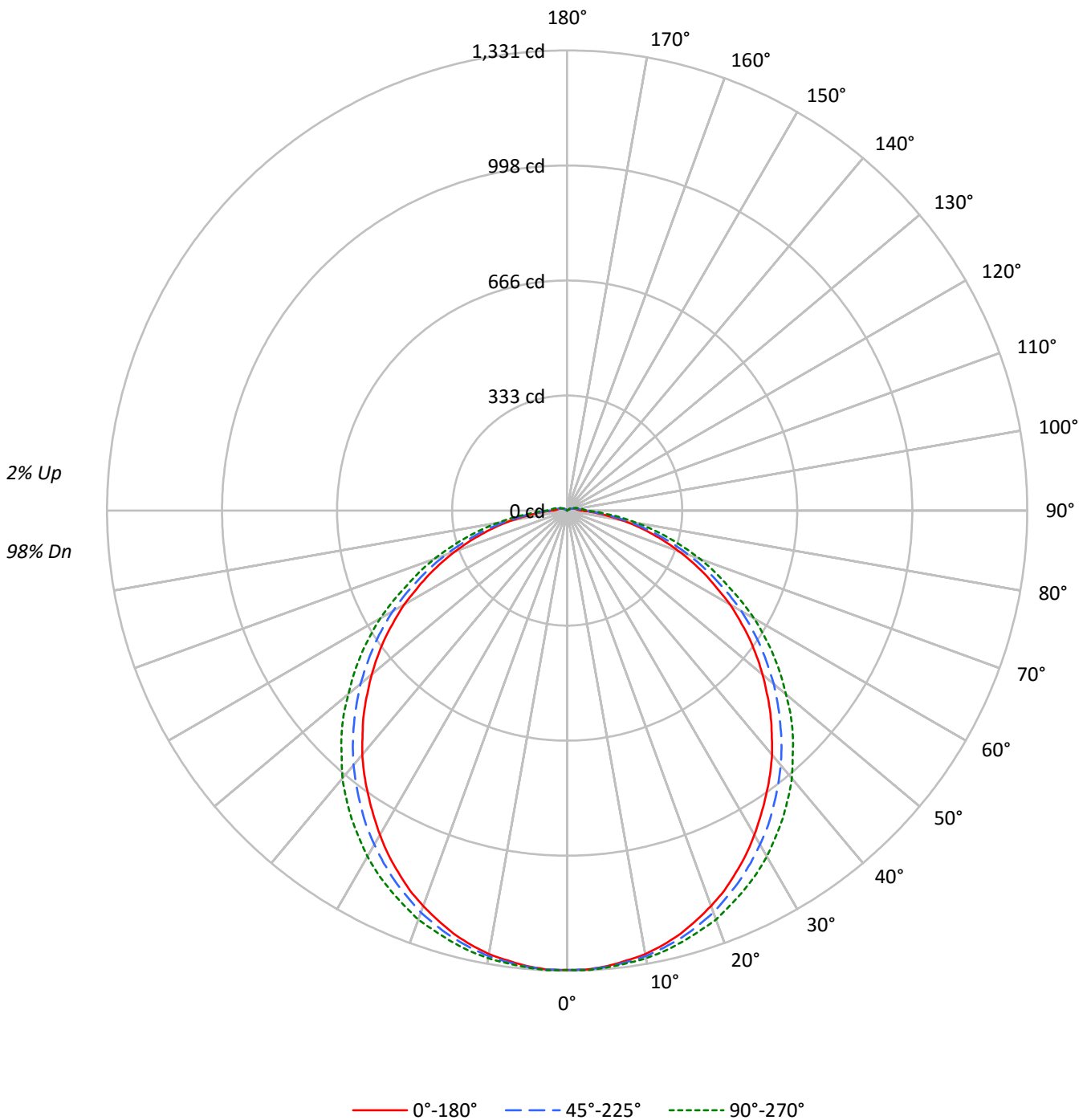
Lumens per Lamp: N/A  
Luminaire Lumens: 3935.3 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 33.4  
Input Voltage (V): NR  
Input Current (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



TEST NUMBER: P384072  
CATALOG NUMBER: 14ID-40-L840-CFD1

### Luminous Intensity Polar Plot





TEST NUMBER: P384072

CATALOG NUMBER: 14ID-40-L840-CFD1

**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°	3576	3576	3576
5°	3567	3555	3558
10°	3547	3530	3541
15°	3510	3494	3518
20°	3459	3450	3499
25°	3397	3390	3461
30°	3326	3324	3425
35°	3249	3253	3375
40°	3182	3181	3321
45°	3102	3091	3245
50°	3016	3002	3146
55°	2927	2896	3053
60°	2829	2781	2937
65°	2700	2611	2759
70°	2554	2442	2619
75°	2387	2213	2406
80°	2212	1942	2142
85°	2140	1673	1830



TEST NUMBER: P384072

CATALOG NUMBER: 14ID-40-L840-CFD1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.8	3.2
10°-20°	360.7	9.2
20°-30°	544.6	13.8
30°-40°	652.5	16.6
40°-50°	674.7	17.1
50°-60°	611.0	15.5
60°-70°	472.8	12.0
70°-80°	290.4	7.4
80°-90°	115.4	2.9
90°-100°	42.1	1.1
100°-110°	25.8	0.7
110°-120°	13.3	0.3
120°-130°	5.7	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°	1031.2	26.2
0°-40°	1683.7	42.8
0°-60°	2969.4	75.5
0°-90°	3848.0	97.8
90°-120°	81.3	2.1
90°-150°	87.3	2.2
90°-180°	87.0	2.2
0°-180°	3935.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1329	1329	1329	1329	1329	
5°	1323	1323	1325	1325	1327	126
15°	1267	1269	1279	1287	1291	357
25°	1155	1163	1181	1201	1211	532
35°	1004	1016	1041	1069	1087	628
45°	832	842	872	908	924	641
55°	642	656	682	712	728	574
65°	443	453	475	499	511	438
75°	247	259	271	289	303	264
85°	86	92	100	110	116	85
90°	40	46	50	56	60	24
95°	30	34	38	42	46	24
105°	22	22	24	26	28	23
115°	14	12	12	14	16	14
125°	8	6	4	6	8	7
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



TEST NUMBER: P384072

CATALOG NUMBER: 14ID-40-L840-CFD1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1328.7	1328.7	1328.7	1328.7	1328.7
2.5°	1328.7	1326.7	1328.7	1328.7	1330.7
5°	1322.8	1322.8	1324.7	1324.7	1326.7
7.5°	1312.8	1312.8	1316.8	1318.8	1320.8
10°	1302.8	1302.8	1308.8	1310.8	1314.8
12.5°	1286.8	1288.8	1294.8	1300.8	1304.8
15°	1266.9	1268.9	1278.9	1286.8	1290.8
17.5°	1242.9	1246.9	1258.9	1270.9	1274.9
20°	1217.0	1223.0	1237.0	1250.9	1258.9
22.5°	1189.1	1193.1	1209.0	1227.0	1235.0
25°	1155.2	1163.1	1181.1	1201.1	1211.0
27.5°	1121.2	1129.2	1149.2	1173.1	1185.1
30°	1083.3	1091.3	1115.3	1141.2	1155.2
32.5°	1043.4	1053.4	1081.3	1107.3	1121.2
35°	1003.5	1015.5	1041.4	1069.4	1087.3
37.5°	963.6	973.6	1001.5	1031.5	1049.4
40°	921.7	931.7	961.6	991.6	1011.5
42.5°	875.9	887.8	917.7	949.7	965.6
45°	832.0	841.9	871.9	907.8	923.7
47.5°	784.1	798.0	826.0	859.9	877.8
50°	738.2	750.2	780.1	812.0	826.0
52.5°	690.3	702.3	730.2	762.1	778.1
55°	642.4	656.4	682.3	712.3	728.2
57.5°	592.5	606.5	632.4	658.4	676.3
60°	544.7	558.6	582.6	608.5	624.5
62.5°	490.8	502.8	528.7	556.6	568.6
65°	442.9	452.9	474.8	498.8	510.7
67.5°	393.0	405.0	425.0	446.9	460.9
70°	343.2	357.1	373.1	393.0	409.0
72.5°	295.3	307.2	321.2	341.2	355.1
75°	247.4	259.4	271.3	289.3	303.3
77.5°	205.5	211.5	223.5	239.4	253.4
80°	159.6	167.6	177.6	193.5	203.5
82.5°	119.7	127.7	135.7	147.6	157.6
85°	85.8	91.8	99.8	109.7	115.7
87.5°	57.9	63.8	69.8	77.8	83.8
90°	39.9	45.9	49.9	55.9	59.9
92.5°	33.9	37.9	41.9	45.9	49.9
95°	29.9	33.9	37.9	41.9	45.9
97.5°	27.9	29.9	33.9	37.9	39.9
100°	25.9	27.9	29.9	33.9	35.9
102.5°	23.9	23.9	27.9	29.9	31.9
105°	21.9	21.9	23.9	25.9	27.9
107.5°	20.0	20.0	21.9	21.9	25.9
110°	18.0	16.0	18.0	18.0	21.9



TEST NUMBER: P384072

CATALOG NUMBER: 14ID-40-L840-CFD1

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	16.0	14.0	16.0	16.0	18.0
115°	14.0	12.0	12.0	14.0	16.0
117.5°	12.0	10.0	10.0	10.0	14.0
120°	12.0	10.0	8.0	8.0	12.0
122.5°	10.0	8.0	6.0	8.0	10.0
125°	8.0	6.0	4.0	6.0	8.0
127.5°	6.0	6.0	2.0	4.0	6.0
130°	6.0	4.0	2.0	4.0	4.0
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)