

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: P384576

Luminaire Tested: **14ID-40-L840-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384576  
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-L840-CFD3  
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

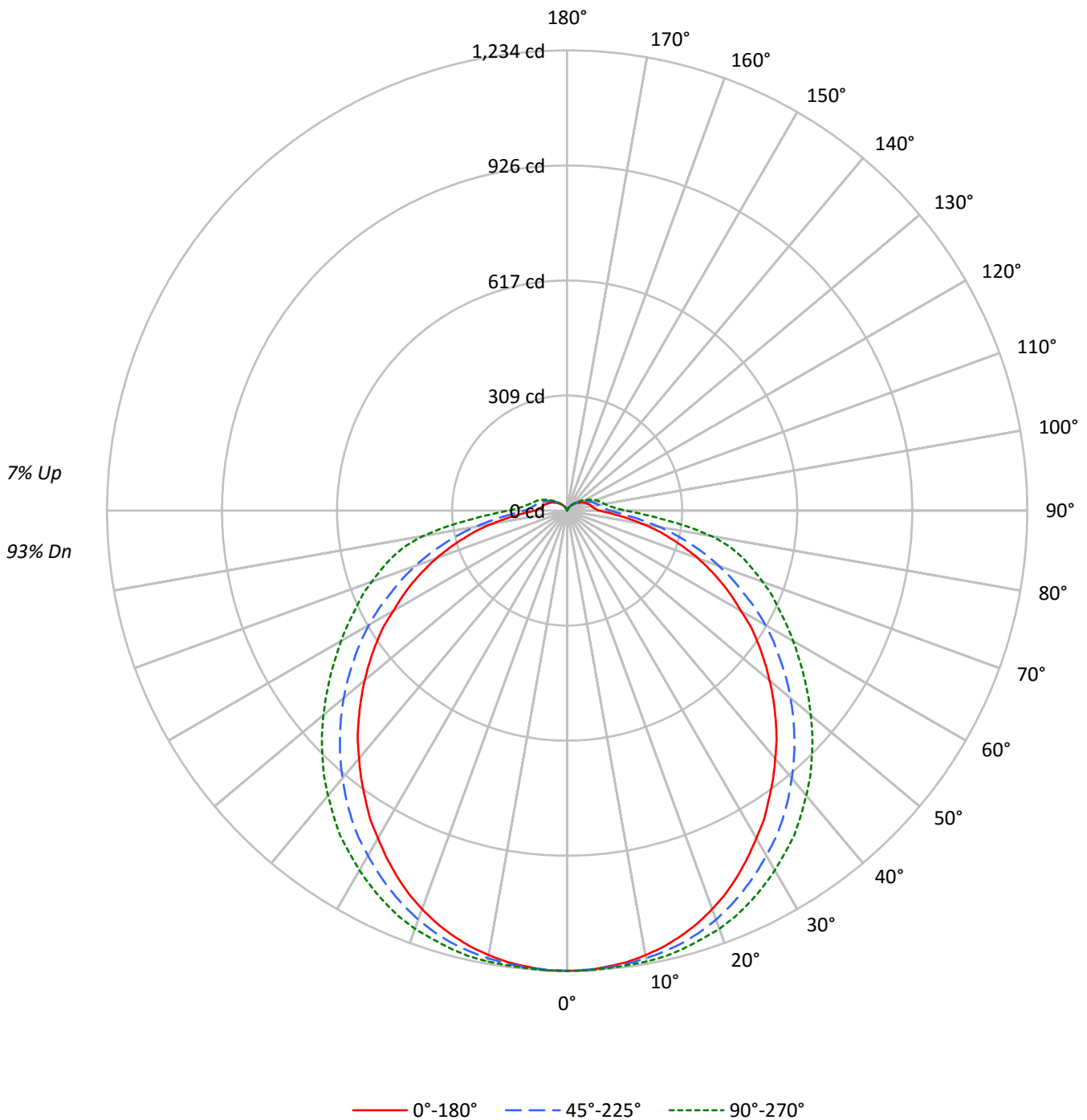
Lumens per Lamp: N/A  
Luminaire Lumens: 4319.3 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')  
CIE Type: Direct

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



TEST NUMBER: P384576  
CATALOG NUMBER: 14ID-40-L840-CFD3

### Luminous Intensity Polar Plot





TEST NUMBER: P384576

CATALOG NUMBER: 14ID-40-L840-CFD3

**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°	3321	3321	3321
5°	3299	3260	3257
10°	3272	3207	3213
15°	3235	3156	3172
20°	3185	3094	3132
25°	3120	3021	3082
30°	3043	2944	3024
35°	2970	2868	2969
40°	2898	2777	2896
45°	2832	2686	2827
50°	2761	2591	2751
55°	2700	2489	2681
60°	2615	2389	2629
65°	2564	2252	2598
70°	2503	2120	2602
75°	2415	1939	2618
80°	2341	1719	2512
85°	2366	1453	2017



TEST NUMBER: P384576

CATALOG NUMBER: 14ID-40-L840-CFD3

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.0	2.7
10°-20°	338.2	7.8
20°-30°	516.7	12.0
30°-40°	629.0	14.6
40°-50°	664.8	15.4
50°-60°	627.5	14.5
60°-70°	528.0	12.2
70°-80°	380.6	8.8
80°-90°	200.7	4.6
90°-100°	107.5	2.5
100°-110°	81.6	1.9
110°-120°	59.2	1.4
120°-130°	37.2	0.9
130°-140°	20.1	0.5
140°-150°	8.8	0.2
150°-160°	2.4	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	972.0	22.5
0°-40°	1600.9	37.1
0°-60°	2893.3	67.0
0°-90°	4002.6	92.7
90°-120°	248.3	5.7
90°-150°	314.3	7.3
90°-180°	317.0	7.3
0°-180°	4319.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1228	1228	1230	1230	1232	117
15°	1180	1185	1200	1208	1215	333
25°	1081	1094	1122	1148	1159	498
35°	944	965	1008	1047	1062	591
45°	791	814	862	909	928	610
55°	627	655	698	750	776	560
65°	457	482	521	586	627	451
75°	286	310	340	407	487	304
85°	131	149	166	207	252	123
90°	84	99	114	136	155	48
95°	73	84	97	110	118	58
105°	62	69	78	86	90	65
115°	50	54	60	65	69	50
125°	37	37	43	43	45	33
135°	26	24	26	26	28	20
145°	15	13	13	13	15	10
155°	6	6	2	4	6	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384576

CATALOG NUMBER: 14ID-40-L840-CFD3

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1234.3	1234.3	1234.3	1234.3	1234.3
2.5°	1234.3	1232.1	1232.1	1232.1	1234.3
5°	1227.8	1227.8	1230.0	1230.0	1232.1
7.5°	1221.4	1221.4	1225.7	1227.8	1230.0
10°	1210.6	1212.8	1219.2	1223.5	1227.8
12.5°	1197.7	1199.8	1210.6	1219.2	1223.5
15°	1180.5	1184.8	1199.8	1208.5	1214.9
17.5°	1161.1	1167.5	1184.8	1197.7	1204.1
20°	1137.4	1146.0	1167.5	1184.8	1193.4
22.5°	1111.5	1120.1	1146.0	1167.5	1178.3
25°	1081.4	1094.3	1122.3	1148.1	1158.9
27.5°	1049.0	1064.1	1096.4	1126.6	1137.4
30°	1014.6	1031.8	1068.4	1100.7	1113.7
32.5°	982.3	999.5	1040.4	1074.9	1087.8
35°	943.5	965.0	1008.1	1046.9	1062.0
37.5°	906.9	928.4	973.7	1014.6	1029.7
40°	868.1	889.6	937.0	982.3	997.4
42.5°	831.5	853.0	900.4	947.8	965.0
45°	790.6	814.3	861.6	909.0	928.4
47.5°	749.6	773.3	822.9	872.4	891.8
50°	708.7	734.6	781.9	831.5	853.0
52.5°	667.8	693.6	741.0	792.7	814.3
55°	626.8	654.8	697.9	749.6	775.5
57.5°	585.9	613.9	657.0	710.9	736.7
60°	538.5	570.8	613.9	669.9	700.1
62.5°	497.6	525.6	568.7	626.8	663.5
65°	456.7	482.5	521.3	585.9	626.8
67.5°	413.6	441.6	478.2	538.5	594.5
70°	372.7	396.4	433.0	495.4	557.9
72.5°	329.6	353.3	387.7	452.4	521.3
75°	286.5	310.2	340.3	407.1	486.8
77.5°	247.7	267.1	295.1	359.7	445.9
80°	204.6	224.0	249.9	308.0	392.0
82.5°	165.9	183.1	204.6	256.3	323.1
85°	131.4	148.6	165.9	206.8	252.0
87.5°	105.6	118.5	135.7	165.9	196.0
90°	84.0	99.1	114.2	135.7	155.1
92.5°	77.5	90.5	103.4	120.6	133.6
95°	73.2	84.0	96.9	109.9	118.5
97.5°	68.9	79.7	90.5	103.4	109.9
100°	66.8	75.4	86.2	96.9	101.2
102.5°	64.6	71.1	81.9	90.5	96.9
105°	62.5	68.9	77.5	86.2	90.5
107.5°	58.2	64.6	73.2	81.9	86.2
110°	56.0	60.3	68.9	75.4	81.9



TEST NUMBER: P384576

CATALOG NUMBER: 14ID-40-L840-CFD3

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	53.9	58.2	64.6	71.1	75.4
115°	49.5	53.9	60.3	64.6	68.9
117.5°	47.4	49.5	56.0	58.2	62.5
120°	43.1	45.2	51.7	53.9	56.0
122.5°	38.8	40.9	47.4	47.4	51.7
125°	36.6	36.6	43.1	43.1	45.2
127.5°	34.5	34.5	38.8	38.8	40.9
130°	30.2	30.2	34.5	34.5	34.5
132.5°	28.0	25.8	30.2	30.2	32.3
135°	25.8	23.7	25.8	25.8	28.0
137.5°	21.5	21.5	23.7	21.5	23.7
140°	19.4	17.2	19.4	19.4	21.5
142.5°	17.2	15.1	17.2	15.1	17.2
145°	15.1	12.9	12.9	12.9	15.1
147.5°	12.9	10.8	10.8	10.8	12.9
150°	10.8	8.6	8.6	8.6	10.8
152.5°	8.6	6.5	4.3	6.5	8.6
155°	6.5	6.5	2.2	4.3	6.5
157.5°	4.3	4.3	0.0	2.2	4.3
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)