

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: P384612

Luminaire Tested: **14ID-85-L840-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384612  
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-85-L840-CFD3  
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

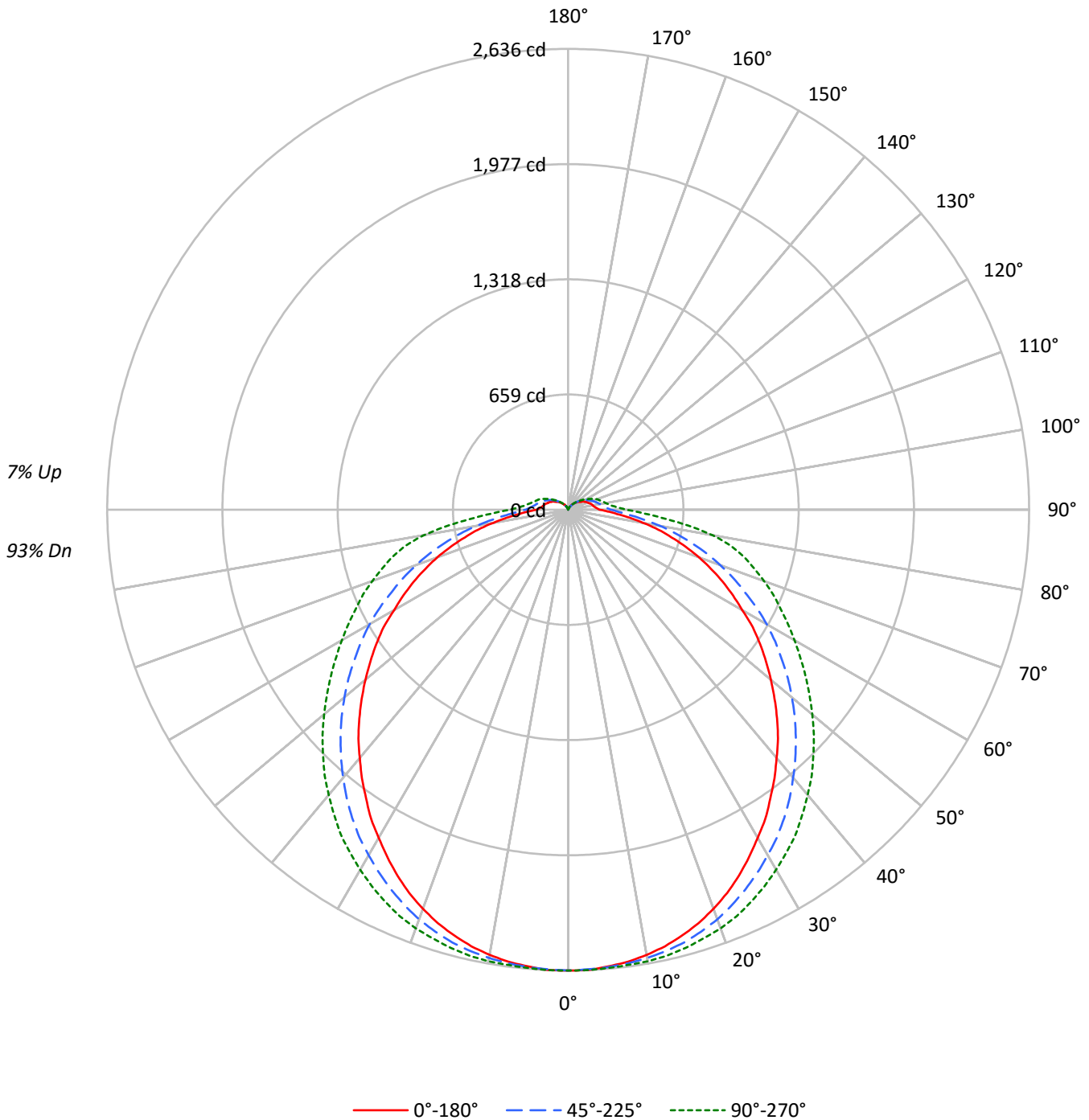
Lumens per Lamp: N/A  
Luminaire Lumens: 9224.3 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 83.3  
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: P384612  
CATALOG NUMBER: 14ID-85-L840-CFD3

### Luminous Intensity Polar Plot





TEST NUMBER: P384612

CATALOG NUMBER: 14ID-85-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°	7093	7093	7093
5°	7045	6961	6956
10°	6988	6848	6863
15°	6908	6740	6775
20°	6801	6609	6690
25°	6663	6452	6581
30°	6498	6288	6458
35°	6342	6125	6341
40°	6188	5930	6185
45°	6047	5735	6037
50°	5897	5534	5876
55°	5766	5315	5726
60°	5585	5103	5615
65°	5476	4810	5549
70°	5344	4527	5557
75°	5158	4142	5592
80°	5000	3670	5367
85°	5054	3102	4308



TEST NUMBER: P384612

CATALOG NUMBER: 14ID-85-L840-CFD3

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.9	2.7
10°-20°	722.3	7.8
20°-30°	1103.5	12.0
30°-40°	1343.3	14.6
40°-50°	1419.8	15.4
50°-60°	1340.2	14.5
60°-70°	1127.5	12.2
70°-80°	812.9	8.8
80°-90°	428.7	4.6
90°-100°	229.5	2.5
100°-110°	174.3	1.9
110°-120°	126.4	1.4
120°-130°	79.4	0.9
130°-140°	42.9	0.5
140°-150°	18.7	0.2
150°-160°	5.0	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	2075.7	22.5
0°-40°	3419.0	37.1
0°-60°	6179.0	67.0
0°-90°	8548.1	92.7
90°-120°	530.1	5.7
90°-150°	671.1	7.3
90°-180°	676.0	7.3
0°-180°	9224.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2636	2636	2636	2636	2636	
5°	2622	2622	2627	2627	2631	249
15°	2521	2530	2562	2581	2595	711
25°	2309	2337	2397	2452	2475	1064
35°	2015	2061	2153	2236	2268	1262
45°	1688	1739	1840	1941	1983	1303
55°	1339	1398	1490	1601	1656	1196
65°	975	1030	1113	1251	1339	964
75°	612	662	727	870	1040	650
85°	281	317	354	442	538	263
90°	179	212	244	290	331	103
95°	156	179	207	235	253	125
105°	133	147	166	184	193	139
115°	106	115	129	138	147	106
125°	78	78	92	92	97	70
135°	55	51	55	55	60	42
145°	32	28	28	28	32	20
155°	14	14	5	9	14	7
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384612

CATALOG NUMBER: 14ID-85-L840-CFD3

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2636.0	2636.0	2636.0	2636.0	2636.0
2.5°	2636.0	2631.4	2631.4	2631.4	2636.0
5°	2622.2	2622.2	2626.8	2626.8	2631.4
7.5°	2608.4	2608.4	2617.6	2622.2	2626.8
10°	2585.4	2590.0	2603.8	2613.0	2622.2
12.5°	2557.8	2562.4	2585.4	2603.8	2613.0
15°	2521.0	2530.2	2562.4	2580.8	2594.6
17.5°	2479.6	2493.4	2530.2	2557.8	2571.6
20°	2429.0	2447.4	2493.4	2530.2	2548.6
22.5°	2373.8	2392.2	2447.4	2493.4	2516.4
25°	2309.4	2337.0	2396.8	2452.0	2475.0
27.5°	2240.4	2272.6	2341.6	2406.0	2429.0
30°	2166.8	2203.6	2281.8	2350.8	2378.4
32.5°	2097.8	2134.6	2222.0	2295.6	2323.2
35°	2015.0	2061.0	2153.0	2235.8	2268.0
37.5°	1936.8	1982.8	2079.4	2166.8	2199.0
40°	1853.9	1899.9	2001.2	2097.8	2130.0
42.5°	1775.7	1821.7	1923.0	2024.2	2061.0
45°	1688.3	1738.9	1840.1	1941.4	1982.8
47.5°	1600.9	1651.5	1757.3	1863.1	1904.5
50°	1513.5	1568.7	1669.9	1775.7	1821.7
52.5°	1426.1	1481.3	1582.5	1692.9	1738.9
55°	1338.7	1398.5	1490.5	1600.9	1656.1
57.5°	1251.3	1311.1	1403.1	1518.1	1573.3
60°	1150.1	1219.1	1311.1	1430.7	1495.1
62.5°	1062.7	1122.5	1214.5	1338.7	1416.9
65°	975.3	1030.5	1113.3	1251.3	1338.7
67.5°	883.3	943.1	1021.3	1150.1	1269.7
70°	795.9	846.5	924.7	1058.1	1191.5
72.5°	703.9	754.5	828.1	966.1	1113.3
75°	611.8	662.5	726.9	869.5	1039.7
77.5°	529.0	570.4	630.2	768.3	952.3
80°	437.0	478.4	533.6	657.9	837.3
82.5°	354.2	391.0	437.0	547.4	690.1
85°	280.6	317.4	354.2	441.6	538.2
87.5°	225.4	253.0	289.8	354.2	418.6
90°	179.4	211.6	243.8	289.8	331.2
92.5°	165.6	193.2	220.8	257.6	285.2
95°	156.4	179.4	207.0	234.6	253.0
97.5°	147.2	170.2	193.2	220.8	234.6
100°	142.6	161.0	184.0	207.0	216.2
102.5°	138.0	151.8	174.8	193.2	207.0
105°	133.4	147.2	165.6	184.0	193.2
107.5°	124.2	138.0	156.4	174.8	184.0
110°	119.6	128.8	147.2	161.0	174.8



TEST NUMBER: P384612

CATALOG NUMBER: 14ID-85-L840-CFD3

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	115.0	124.2	138.0	151.8	161.0
115°	105.8	115.0	128.8	138.0	147.2
117.5°	101.2	105.8	119.6	124.2	133.4
120°	92.0	96.6	110.4	115.0	119.6
122.5°	82.8	87.4	101.2	101.2	110.4
125°	78.2	78.2	92.0	92.0	96.6
127.5°	73.6	73.6	82.8	82.8	87.4
130°	64.4	64.4	73.6	73.6	73.6
132.5°	59.8	55.2	64.4	64.4	69.0
135°	55.2	50.6	55.2	55.2	59.8
137.5°	46.0	46.0	50.6	46.0	50.6
140°	41.4	36.8	41.4	41.4	46.0
142.5°	36.8	32.2	36.8	32.2	36.8
145°	32.2	27.6	27.6	27.6	32.2
147.5°	27.6	23.0	23.0	23.0	27.6
150°	23.0	18.4	18.4	18.4	23.0
152.5°	18.4	13.8	9.2	13.8	18.4
155°	13.8	13.8	4.6	9.2	13.8
157.5°	9.2	9.2	0.0	4.6	9.2
160°	4.6	4.6	0.0	4.6	4.6
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)