

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: P384588

Luminaire Tested: **14ID-55-L840-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384588  
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-55-L840-CFD3  
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

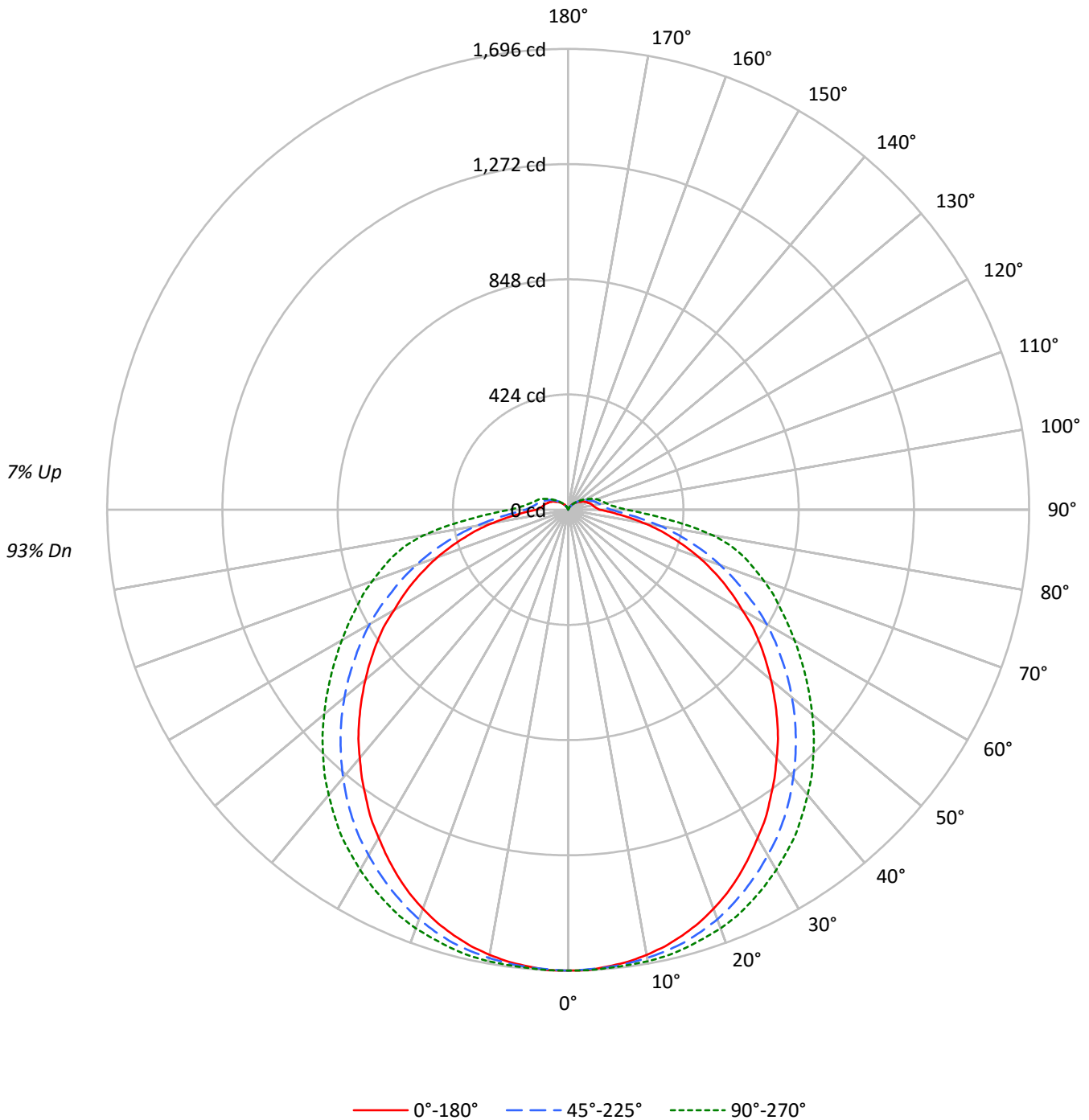
Lumens per Lamp: N/A  
Luminaire Lumens: 5935.5 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 48.2  
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: P384588  
CATALOG NUMBER: 14ID-55-L840-CFD3

### Luminous Intensity Polar Plot





TEST NUMBER: P384588

CATALOG NUMBER: 14ID-55-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°	4564	4564	4564
5°	4533	4479	4476
10°	4496	4406	4416
15°	4445	4337	4359
20°	4376	4252	4304
25°	4287	4151	4235
30°	4181	4046	4156
35°	4081	3941	4080
40°	3982	3816	3980
45°	3891	3691	3884
50°	3795	3561	3781
55°	3710	3420	3684
60°	3594	3284	3613
65°	3523	3095	3571
70°	3439	2913	3576
75°	3319	2665	3598
80°	3217	2362	3453
85°	3253	1996	2772



TEST NUMBER: P384588

CATALOG NUMBER: 14ID-55-L840-CFD3

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.8	2.7
10°-20°	464.8	7.8
20°-30°	710.1	12.0
30°-40°	864.3	14.6
40°-50°	913.6	15.4
50°-60°	862.3	14.5
60°-70°	725.5	12.2
70°-80°	523.1	8.8
80°-90°	275.9	4.6
90°-100°	147.7	2.5
100°-110°	112.1	1.9
110°-120°	81.3	1.4
120°-130°	51.1	0.9
130°-140°	27.6	0.5
140°-150°	12.1	0.2
150°-160°	3.2	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1335.6	22.5
0°-40°	2200.0	37.1
0°-60°	3975.9	67.0
0°-90°	5500.3	92.7
90°-120°	341.1	5.7
90°-150°	431.8	7.3
90°-180°	435.0	7.3
0°-180°	5935.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1687	1687	1690	1690	1693	160
15°	1622	1628	1649	1661	1670	458
25°	1486	1504	1542	1578	1593	684
35°	1296	1326	1385	1439	1459	812
45°	1086	1119	1184	1249	1276	838
55°	861	900	959	1030	1066	770
65°	628	663	716	805	861	620
75°	394	426	468	560	669	418
85°	181	204	228	284	346	169
90°	115	136	157	186	213	66
95°	101	115	133	151	163	80
105°	86	95	107	118	124	90
115°	68	74	83	89	95	68
125°	50	50	59	59	62	45
135°	36	33	36	36	38	27
145°	21	18	18	18	21	13
155°	9	9	3	6	9	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384588

CATALOG NUMBER: 14ID-55-L840-CFD3

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1696.2	1696.2	1696.2	1696.2	1696.2
2.5°	1696.2	1693.2	1693.2	1693.2	1696.2
5°	1687.3	1687.3	1690.2	1690.2	1693.2
7.5°	1678.4	1678.4	1684.3	1687.3	1690.2
10°	1663.6	1666.6	1675.4	1681.4	1687.3
12.5°	1645.8	1648.8	1663.6	1675.4	1681.4
15°	1622.2	1628.1	1648.8	1660.6	1669.5
17.5°	1595.5	1604.4	1628.1	1645.8	1654.7
20°	1562.9	1574.8	1604.4	1628.1	1639.9
22.5°	1527.4	1539.3	1574.8	1604.4	1619.2
25°	1486.0	1503.7	1542.2	1577.8	1592.6
27.5°	1441.6	1462.3	1506.7	1548.1	1562.9
30°	1394.2	1417.9	1468.2	1512.6	1530.4
32.5°	1349.8	1373.5	1429.7	1477.1	1494.9
35°	1296.5	1326.1	1385.3	1438.6	1459.3
37.5°	1246.2	1275.8	1338.0	1394.2	1414.9
40°	1192.9	1222.5	1287.7	1349.8	1370.5
42.5°	1142.6	1172.2	1237.3	1302.5	1326.1
45°	1086.4	1118.9	1184.1	1249.2	1275.8
47.5°	1030.1	1062.7	1130.8	1198.9	1225.5
50°	973.9	1009.4	1074.5	1142.6	1172.2
52.5°	917.6	953.2	1018.3	1089.3	1118.9
55°	861.4	899.9	959.1	1030.1	1065.6
57.5°	805.2	843.6	902.8	976.8	1012.4
60°	740.0	784.4	843.6	920.6	962.0
62.5°	683.8	722.3	781.5	861.4	911.7
65°	627.5	663.1	716.4	805.2	861.4
67.5°	568.3	606.8	657.1	740.0	817.0
70°	512.1	544.7	595.0	680.8	766.7
72.5°	452.9	485.5	532.8	621.6	716.4
75°	393.7	426.3	467.7	559.5	669.0
77.5°	340.4	367.1	405.5	494.3	612.7
80°	281.2	307.9	343.4	423.3	538.7
82.5°	227.9	251.6	281.2	352.3	444.0
85°	180.6	204.2	227.9	284.2	346.3
87.5°	145.0	162.8	186.5	227.9	269.4
90°	115.4	136.2	156.9	186.5	213.1
92.5°	106.6	124.3	142.1	165.8	183.5
95°	100.6	115.4	133.2	151.0	162.8
97.5°	94.7	109.5	124.3	142.1	151.0
100°	91.8	103.6	118.4	133.2	139.1
102.5°	88.8	97.7	112.5	124.3	133.2
105°	85.8	94.7	106.6	118.4	124.3
107.5°	79.9	88.8	100.6	112.5	118.4
110°	77.0	82.9	94.7	103.6	112.5



TEST NUMBER: P384588

CATALOG NUMBER: 14ID-55-L840-CFD3

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	74.0	79.9	88.8	97.7	103.6
115°	68.1	74.0	82.9	88.8	94.7
117.5°	65.1	68.1	77.0	79.9	85.8
120°	59.2	62.2	71.0	74.0	77.0
122.5°	53.3	56.2	65.1	65.1	71.0
125°	50.3	50.3	59.2	59.2	62.2
127.5°	47.4	47.4	53.3	53.3	56.2
130°	41.4	41.4	47.4	47.4	47.4
132.5°	38.5	35.5	41.4	41.4	44.4
135°	35.5	32.6	35.5	35.5	38.5
137.5°	29.6	29.6	32.6	29.6	32.6
140°	26.6	23.7	26.6	26.6	29.6
142.5°	23.7	20.7	23.7	20.7	23.7
145°	20.7	17.8	17.8	17.8	20.7
147.5°	17.8	14.8	14.8	14.8	17.8
150°	14.8	11.8	11.8	11.8	14.8
152.5°	11.8	8.9	5.9	8.9	11.8
155°	8.9	8.9	3.0	5.9	8.9
157.5°	5.9	5.9	0.0	3.0	5.9
160°	3.0	3.0	0.0	3.0	3.0
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)