

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: P384016

Luminaire Tested: **24ID-45-L840-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384016  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-45-L840-CFR2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

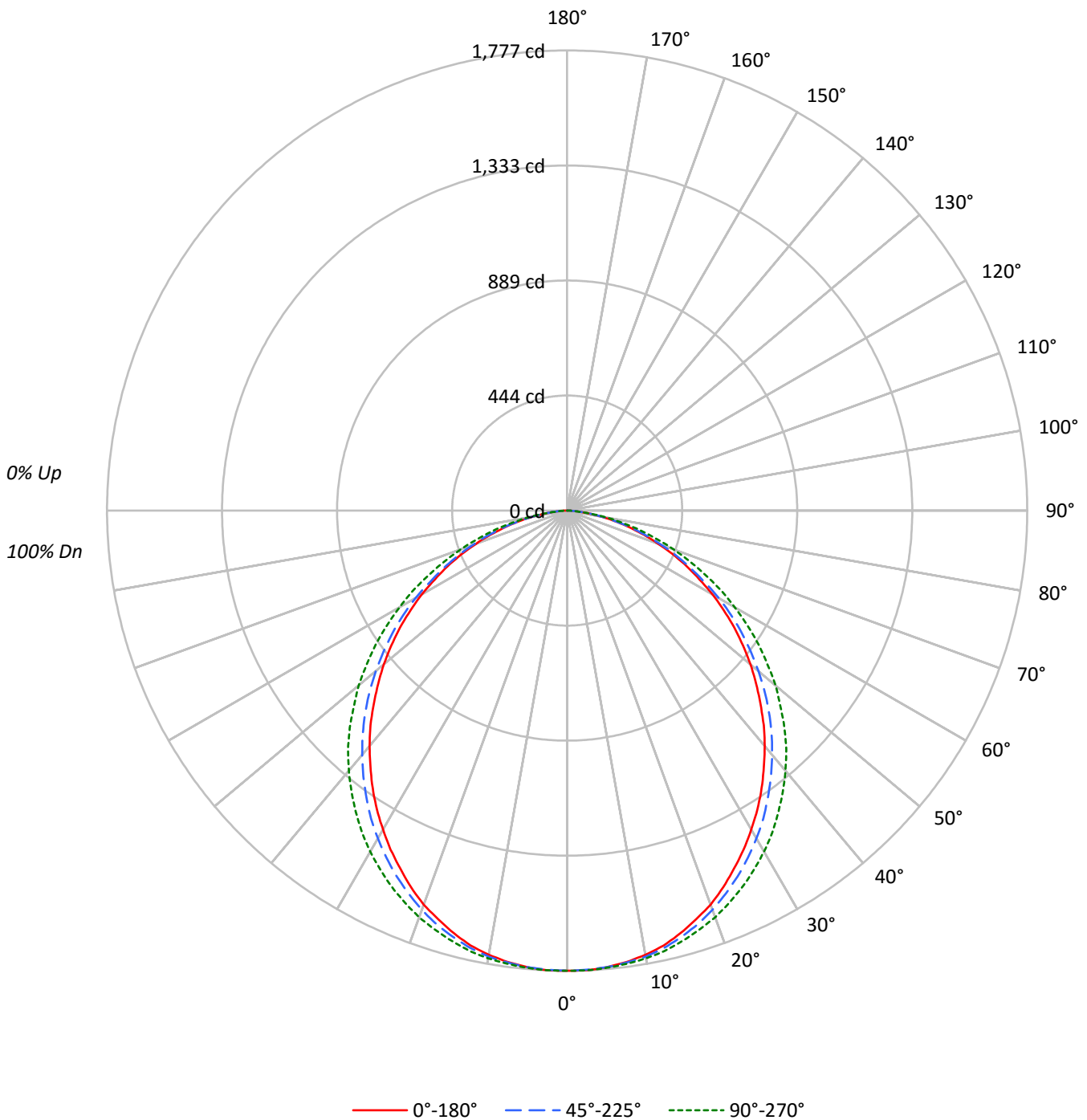
Lumens per Lamp: N/A  
Luminaire Lumens: 4691.0 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 40  
Input Voltage (V): NR  
Input Current (Ain): 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: P384016  
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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	2391	2391	2391
5°	2391	2391	2394
10°	2380	2389	2399
15°	2354	2374	2397
20°	2319	2349	2393
25°	2265	2314	2380
30°	2209	2271	2363
35°	2151	2220	2336
40°	2085	2163	2304
45°	2008	2098	2259
50°	1934	2017	2199
55°	1847	1930	2117
60°	1746	1822	2012
65°	1624	1676	1878
70°	1470	1526	1720
75°	1283	1332	1503
80°	1038	1056	1184
85°	618	690	580



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.2	3.6
10°-20°	480.8	10.2
20°-30°	719.2	15.3
30°-40°	849.8	18.1
40°-50°	857.5	18.3
50°-60°	744.6	15.9
60°-70°	534.0	11.4
70°-80°	278.2	5.9
80°-90°	58.7	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	1368.3	29.2
0°-40°	2218.0	47.3
0°-60°	3820.1	81.4
0°-90°	4691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4691.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1777	1777	1777	1777	1777	
5°	1770	1768	1770	1770	1772	168
15°	1690	1692	1704	1716	1721	476
25°	1526	1535	1558	1589	1603	703
35°	1309	1319	1352	1401	1422	818
45°	1055	1067	1102	1159	1187	815
55°	787	794	823	877	903	703
65°	510	508	526	566	590	504
75°	247	244	256	275	289	263
85°	40	45	45	40	38	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1777.0	1777.0	1777.0	1777.0	1777.0
2.5°	1777.0	1774.7	1774.7	1774.7	1777.0
5°	1770.0	1767.6	1770.0	1770.0	1772.3
7.5°	1758.2	1755.9	1760.6	1762.9	1765.3
10°	1741.8	1741.8	1748.8	1753.5	1755.9
12.5°	1720.6	1720.6	1730.0	1737.1	1741.8
15°	1690.0	1692.4	1704.1	1715.9	1720.6
17.5°	1654.8	1661.8	1675.9	1692.4	1697.1
20°	1619.5	1624.2	1640.7	1661.8	1671.2
22.5°	1574.9	1581.9	1600.7	1628.9	1638.3
25°	1525.5	1534.9	1558.4	1589.0	1603.1
27.5°	1476.1	1483.2	1511.4	1546.7	1563.1
30°	1422.1	1431.5	1462.0	1502.0	1520.8
32.5°	1368.0	1375.1	1410.3	1452.6	1473.8
35°	1309.3	1318.7	1351.6	1400.9	1422.1
37.5°	1248.1	1259.9	1292.8	1344.5	1368.0
40°	1187.0	1194.1	1231.7	1283.4	1311.6
42.5°	1123.6	1133.0	1168.2	1224.6	1252.8
45°	1055.4	1067.1	1102.4	1158.8	1187.0
47.5°	989.6	1001.3	1034.2	1090.7	1116.5
50°	923.8	930.8	963.7	1020.1	1050.7
52.5°	855.6	862.7	893.2	947.3	975.5
55°	787.4	794.5	822.7	876.8	902.6
57.5°	716.9	721.6	749.8	799.2	825.0
60°	648.8	651.1	677.0	721.6	747.5
62.5°	575.9	578.2	597.0	648.8	672.3
65°	510.1	507.7	526.5	566.5	590.0
67.5°	441.9	441.9	458.4	493.6	512.4
70°	373.7	373.7	387.8	418.4	437.2
72.5°	310.3	310.3	322.0	345.5	359.6
75°	246.8	244.5	256.2	275.0	289.1
77.5°	188.0	188.0	192.7	209.2	218.6
80°	134.0	134.0	136.3	145.7	152.8
82.5°	84.6	84.6	84.6	89.3	91.7
85°	40.0	44.7	44.7	40.0	37.6
87.5°	18.8	18.8	16.5	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)