

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: P383964

Luminaire Tested: **22ID-45-L840-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383964  
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: 22ID-45-L840-CFR2  
Description: 2X2 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

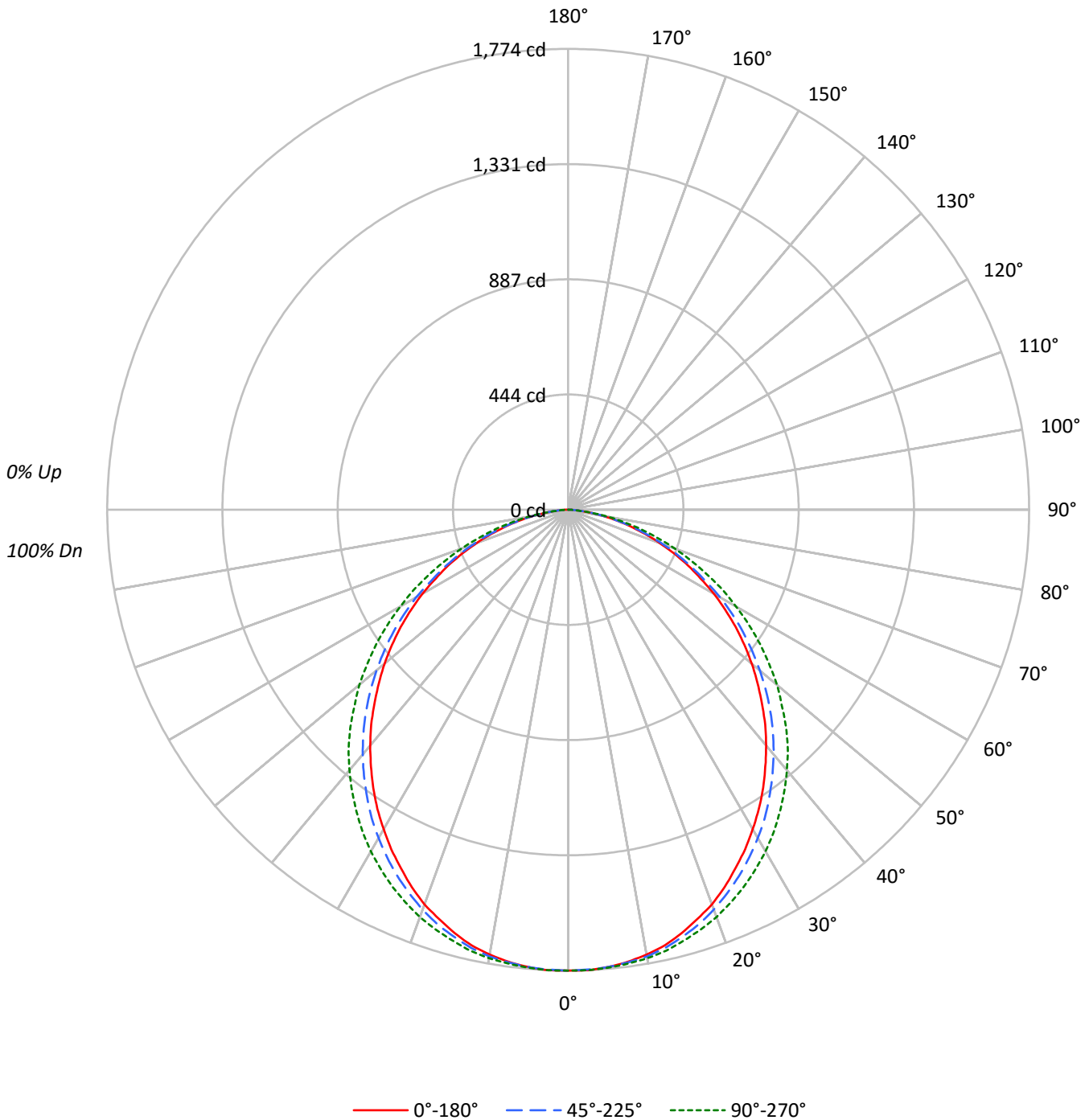
Lumens per Lamp: N/A  
Luminaire Lumens: 4684.0 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 37.5  
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



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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°	4775	4775	4775
5°	4774	4774	4780
10°	4752	4771	4791
15°	4701	4740	4786
20°	4631	4691	4779
25°	4523	4620	4753
30°	4412	4536	4718
35°	4295	4433	4665
40°	4164	4320	4600
45°	4010	4189	4511
50°	3862	4029	4392
55°	3689	3854	4229
60°	3486	3638	4017
65°	3243	3347	3751
70°	2936	3047	3434
75°	2562	2660	3002
80°	2073	2109	2365
85°	1232	1377	1161



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.0	3.6
10°-20°	480.1	10.2
20°-30°	718.2	15.3
30°-40°	848.5	18.1
40°-50°	856.2	18.3
50°-60°	743.5	15.9
60°-70°	533.2	11.4
70°-80°	277.8	5.9
80°-90°	58.6	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°	1366.2	29.2
0°-40°	2214.7	47.3
0°-60°	3814.5	81.4
0°-90°	4684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4684.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1774	1774	1774	1774	1774	
5°	1767	1765	1767	1767	1770	168
15°	1688	1690	1702	1713	1718	476
25°	1523	1533	1556	1587	1601	702
35°	1307	1317	1350	1399	1420	817
45°	1054	1066	1101	1157	1185	814
55°	786	793	822	875	901	702
65°	509	507	526	566	589	504
75°	246	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°	1774.4	1774.4	1774.4	1774.4	1774.4
2.5°	1774.4	1772.0	1772.0	1772.0	1774.4
5°	1767.3	1765.0	1767.3	1767.3	1769.7
7.5°	1755.6	1753.2	1757.9	1760.3	1762.6
10°	1739.2	1739.2	1746.2	1750.9	1753.2
12.5°	1718.0	1718.0	1727.4	1734.5	1739.2
15°	1687.5	1689.9	1701.6	1713.3	1718.0
17.5°	1652.3	1659.4	1673.4	1689.9	1694.6
20°	1617.1	1621.8	1638.2	1659.4	1668.7
22.5°	1572.5	1579.6	1598.3	1626.5	1635.9
25°	1523.2	1532.6	1556.1	1586.6	1600.7
27.5°	1473.9	1481.0	1509.1	1544.4	1560.8
30°	1420.0	1429.3	1459.9	1499.8	1518.5
32.5°	1366.0	1373.0	1408.2	1450.5	1471.6
35°	1307.3	1316.7	1349.5	1398.8	1420.0
37.5°	1246.3	1258.0	1290.9	1342.5	1366.0
40°	1185.3	1192.3	1229.8	1281.5	1309.6
42.5°	1121.9	1131.3	1166.5	1222.8	1251.0
45°	1053.8	1065.6	1100.8	1157.1	1185.3
47.5°	988.1	999.8	1032.7	1089.0	1114.8
50°	922.4	929.4	962.3	1018.6	1049.1
52.5°	854.3	861.4	891.9	945.9	974.0
55°	786.3	793.3	821.5	875.4	901.3
57.5°	715.8	720.5	748.7	798.0	823.8
60°	647.8	650.1	675.9	720.5	746.4
62.5°	575.0	577.4	596.1	647.8	671.3
65°	509.3	507.0	525.7	565.6	589.1
67.5°	441.2	441.2	457.7	492.9	511.7
70°	373.2	373.2	387.3	417.8	436.5
72.5°	309.8	309.8	321.5	345.0	359.1
75°	246.4	244.1	255.8	274.6	288.7
77.5°	187.8	187.8	192.5	208.9	218.3
80°	133.8	133.8	136.1	145.5	152.6
82.5°	84.5	84.5	84.5	89.2	91.5
85°	39.9	44.6	44.6	39.9	37.6
87.5°	18.8	18.8	16.4	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)