

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: P383796

Luminaire Tested: **22ID-45-L840-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383796  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22ID-45-L840-CFR1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

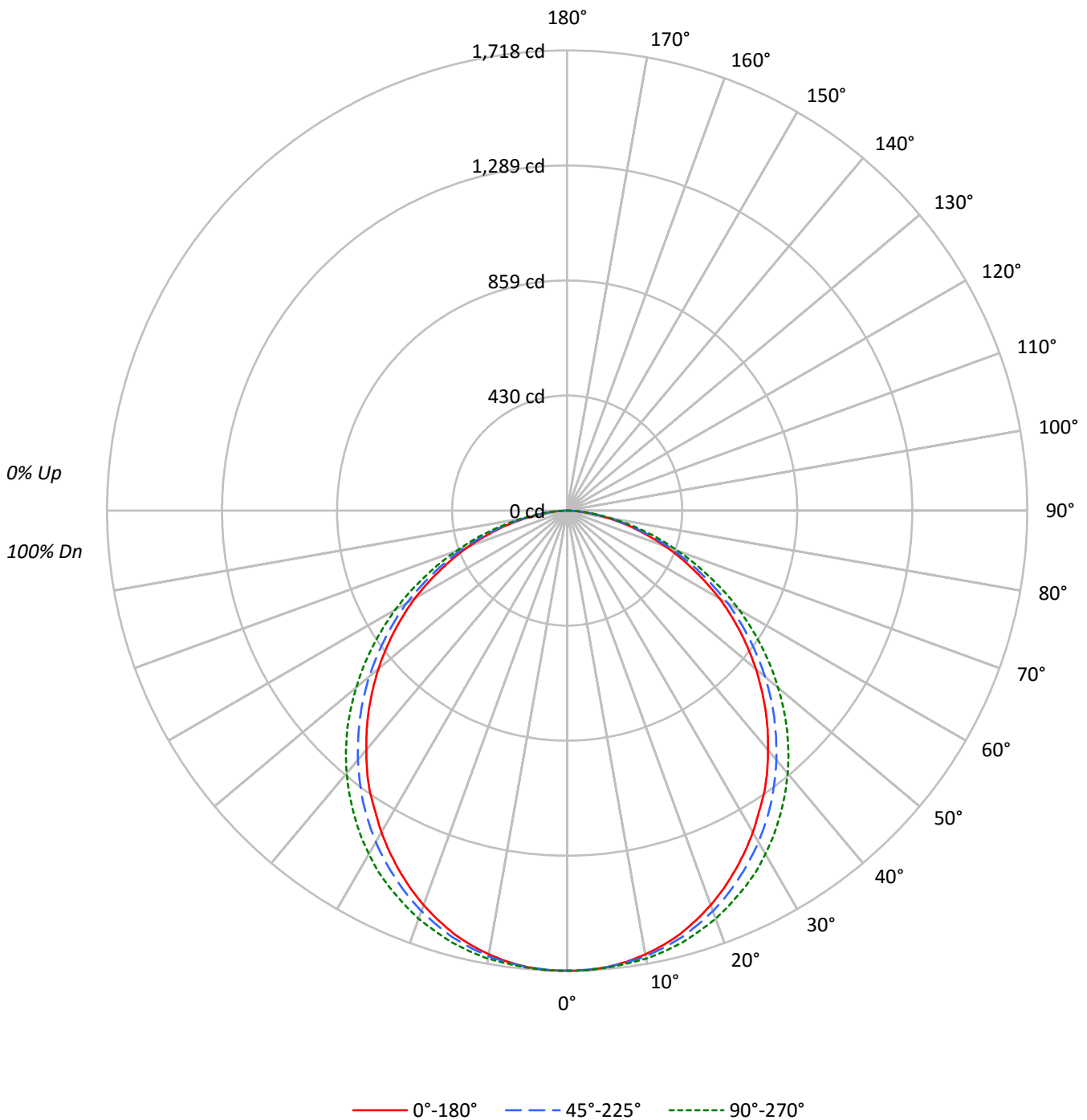
Lumens per Lamp: N/A  
Luminaire Lumens: 4665.2 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 37.5  
Input Voltage (V): NR  
Input Current (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



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	4623	4623	4623
5°	4621	4621	4628
10°	4598	4617	4643
15°	4557	4596	4648
20°	4489	4556	4644
25°	4404	4501	4627
30°	4309	4441	4601
35°	4217	4363	4556
40°	4097	4270	4501
45°	3983	4161	4421
50°	3851	4038	4303
55°	3699	3887	4161
60°	3536	3726	3991
65°	3302	3496	3736
70°	3065	3231	3452
75°	2732	2879	3123
80°	2290	2400	2619
85°	1738	1738	1958



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CATALOG NUMBER: 22ID-45-L840-CFR1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.6	3.5
10°-20°	465.2	10.0
20°-30°	699.5	15.0
30°-40°	832.1	17.8
40°-50°	846.7	18.1
50°-60°	745.1	16.0
60°-70°	546.6	11.7
70°-80°	296.7	6.4
80°-90°	70.8	1.5
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°	1327.2	28.4
0°-40°	2159.3	46.3
0°-60°	3751.1	80.4
0°-90°	4665.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4665.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1718	1718	1718	1718	1718	
5°	1711	1708	1711	1711	1713	162
15°	1636	1638	1650	1659	1668	461
25°	1483	1492	1516	1542	1558	683
35°	1284	1293	1328	1368	1387	802
45°	1047	1056	1094	1140	1162	807
55°	788	800	828	868	887	705
65°	519	528	549	573	587	515
75°	263	268	277	291	300	279
85°	56	56	56	61	63	68
90°	0	0	0	0	0	



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CATALOG NUMBER: 22ID-45-L840-CFR1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1717.8	1717.8	1717.8	1717.8	1717.8
2.5°	1717.8	1715.4	1715.4	1715.4	1717.8
5°	1710.7	1708.4	1710.7	1710.7	1713.1
7.5°	1699.0	1696.6	1701.3	1703.7	1706.0
10°	1682.6	1682.6	1689.6	1694.3	1699.0
12.5°	1661.4	1663.8	1670.8	1677.9	1684.9
15°	1635.6	1638.0	1649.7	1659.1	1668.5
17.5°	1602.8	1607.5	1621.6	1635.6	1645.0
20°	1567.6	1574.6	1591.0	1609.8	1621.6
22.5°	1527.7	1537.1	1555.8	1579.3	1591.0
25°	1483.1	1492.5	1516.0	1541.8	1558.2
27.5°	1436.2	1447.9	1473.7	1504.2	1523.0
30°	1386.9	1398.6	1429.1	1462.0	1480.8
32.5°	1332.9	1347.0	1379.8	1417.4	1436.2
35°	1283.6	1293.0	1328.2	1368.1	1386.9
37.5°	1227.3	1239.0	1271.9	1314.1	1335.3
40°	1166.3	1178.0	1215.6	1257.8	1281.3
42.5°	1107.6	1117.0	1154.6	1201.5	1222.6
45°	1046.6	1056.0	1093.5	1140.5	1161.6
47.5°	983.3	995.0	1030.2	1074.8	1095.9
50°	919.9	929.3	964.5	1006.7	1027.8
52.5°	854.2	863.6	896.4	938.7	959.8
55°	788.5	800.2	828.4	868.3	887.0
57.5°	722.8	734.5	760.3	797.9	814.3
60°	657.1	666.5	692.3	725.1	741.5
62.5°	586.7	593.7	619.5	652.4	666.5
65°	518.6	528.0	549.1	572.6	586.7
67.5°	455.3	459.9	478.7	504.5	513.9
70°	389.5	394.2	410.7	431.8	438.8
72.5°	323.8	330.9	342.6	361.4	370.8
75°	262.8	267.5	276.9	291.0	300.4
77.5°	204.2	206.5	213.5	225.3	232.3
80°	147.8	150.2	154.9	164.3	169.0
82.5°	98.6	100.9	103.3	107.9	112.6
85°	56.3	56.3	56.3	61.0	63.4
87.5°	21.1	18.8	18.8	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)