

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: P383741

Luminaire Tested: **14ID-45-L850-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383741  
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: 14ID-45-L850-CFR1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

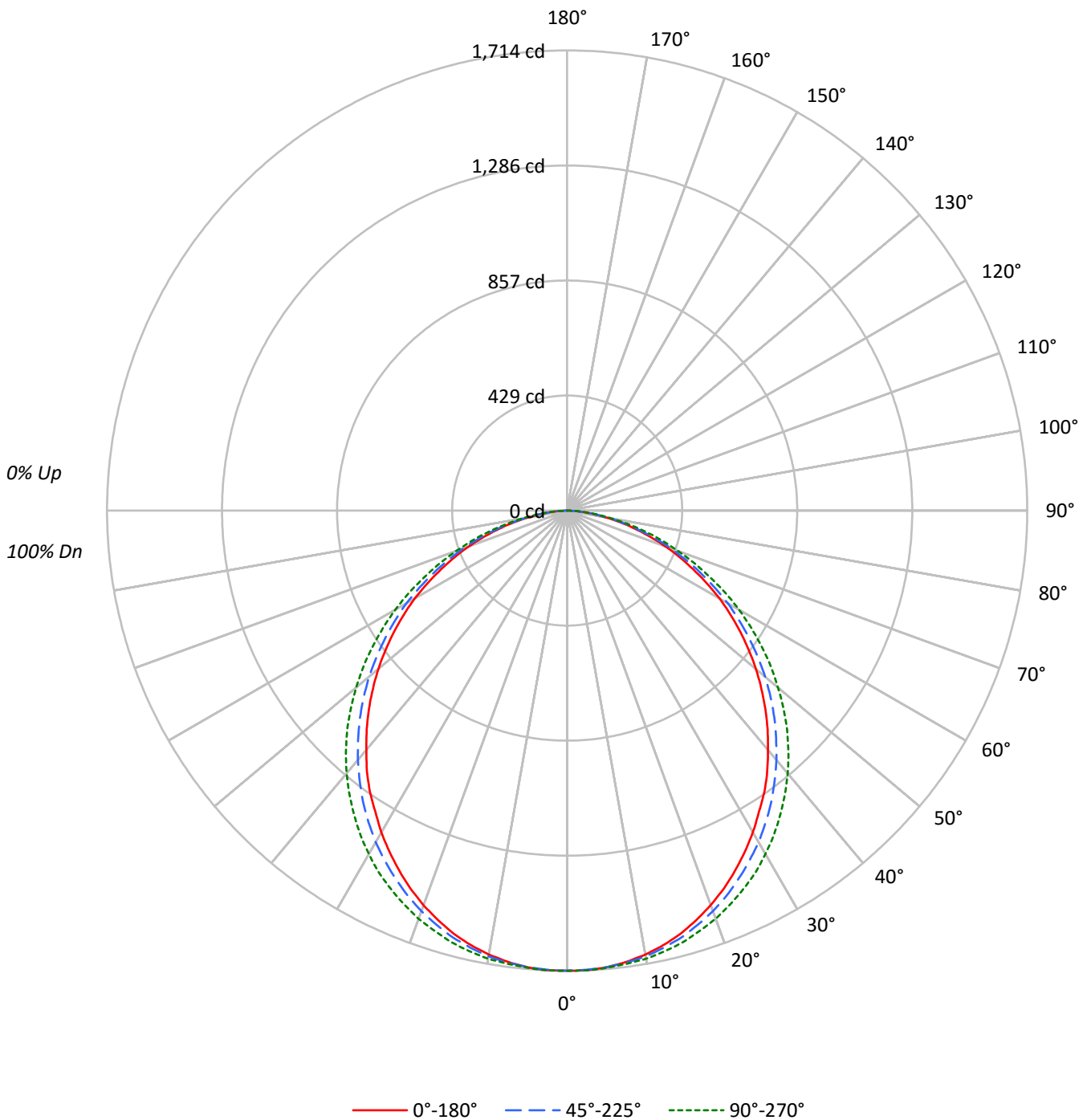
Lumens per Lamp: N/A  
Luminaire Lumens: 4654.9 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.5  
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	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°	4612	4612	4612
5°	4611	4611	4617
10°	4588	4607	4632
15°	4547	4586	4638
20°	4479	4546	4633
25°	4394	4491	4616
30°	4300	4431	4591
35°	4208	4354	4546
40°	4088	4261	4491
45°	3974	4152	4411
50°	3843	4029	4294
55°	3691	3878	4153
60°	3528	3717	3982
65°	3295	3489	3727
70°	3058	3224	3445
75°	2726	2873	3116
80°	2286	2394	2613
85°	1735	1735	1951



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.2	3.5
10°-20°	464.2	10.0
20°-30°	697.9	15.0
30°-40°	830.3	17.8
40°-50°	844.8	18.1
50°-60°	743.5	16.0
60°-70°	545.4	11.7
70°-80°	296.0	6.4
80°-90°	70.6	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°	1324.3	28.4
0°-40°	2154.6	46.3
0°-60°	3742.9	80.4
0°-90°	4654.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4654.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1714	1714	1714	1714	1714	
5°	1707	1705	1707	1707	1709	162
15°	1632	1634	1646	1655	1665	460
25°	1480	1489	1513	1538	1555	682
35°	1281	1290	1325	1365	1384	800
45°	1044	1054	1091	1138	1159	805
55°	787	798	826	866	885	704
65°	518	527	548	571	585	514
75°	262	267	276	290	300	279
85°	56	56	56	61	63	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1714.0	1714.0	1714.0	1714.0	1714.0
2.5°	1714.0	1711.6	1711.6	1711.6	1714.0
5°	1706.9	1704.6	1706.9	1706.9	1709.3
7.5°	1695.2	1692.9	1697.6	1699.9	1702.3
10°	1678.9	1678.9	1685.9	1690.6	1695.2
12.5°	1657.8	1660.1	1667.1	1674.2	1681.2
15°	1632.0	1634.4	1646.1	1655.4	1664.8
17.5°	1599.2	1603.9	1618.0	1632.0	1641.4
20°	1564.1	1571.1	1587.5	1606.3	1618.0
22.5°	1524.3	1533.7	1552.4	1575.8	1587.5
25°	1479.8	1489.2	1512.6	1538.4	1554.8
27.5°	1433.0	1444.7	1470.5	1500.9	1519.6
30°	1383.8	1395.5	1426.0	1458.7	1477.5
32.5°	1330.0	1344.0	1376.8	1414.3	1433.0
35°	1280.8	1290.2	1325.3	1365.1	1383.8
37.5°	1224.6	1236.3	1269.1	1311.2	1332.3
40°	1163.7	1175.4	1212.9	1255.0	1278.5
42.5°	1105.2	1114.6	1152.0	1198.8	1219.9
45°	1044.3	1053.7	1091.1	1138.0	1159.0
47.5°	981.1	992.8	1027.9	1072.4	1093.5
50°	917.9	927.2	962.4	1004.5	1025.6
52.5°	852.3	861.7	894.5	936.6	957.7
55°	786.7	798.4	826.5	866.4	885.1
57.5°	721.2	732.9	758.6	796.1	812.5
60°	655.6	665.0	690.7	723.5	739.9
62.5°	585.4	592.4	618.2	650.9	665.0
65°	517.5	526.8	547.9	571.3	585.4
67.5°	454.2	458.9	477.7	503.4	512.8
70°	388.7	393.4	409.8	430.8	437.9
72.5°	323.1	330.2	341.9	360.6	370.0
75°	262.2	266.9	276.3	290.3	299.7
77.5°	203.7	206.1	213.1	224.8	231.8
80°	147.5	149.9	154.5	163.9	168.6
82.5°	98.3	100.7	103.0	107.7	112.4
85°	56.2	56.2	56.2	60.9	63.2
87.5°	21.1	18.7	18.7	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)