

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: P383909

Luminaire Tested: **14ID-45-L850-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383909  
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: 14ID-45-L850-CFR2  
Description: 1X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

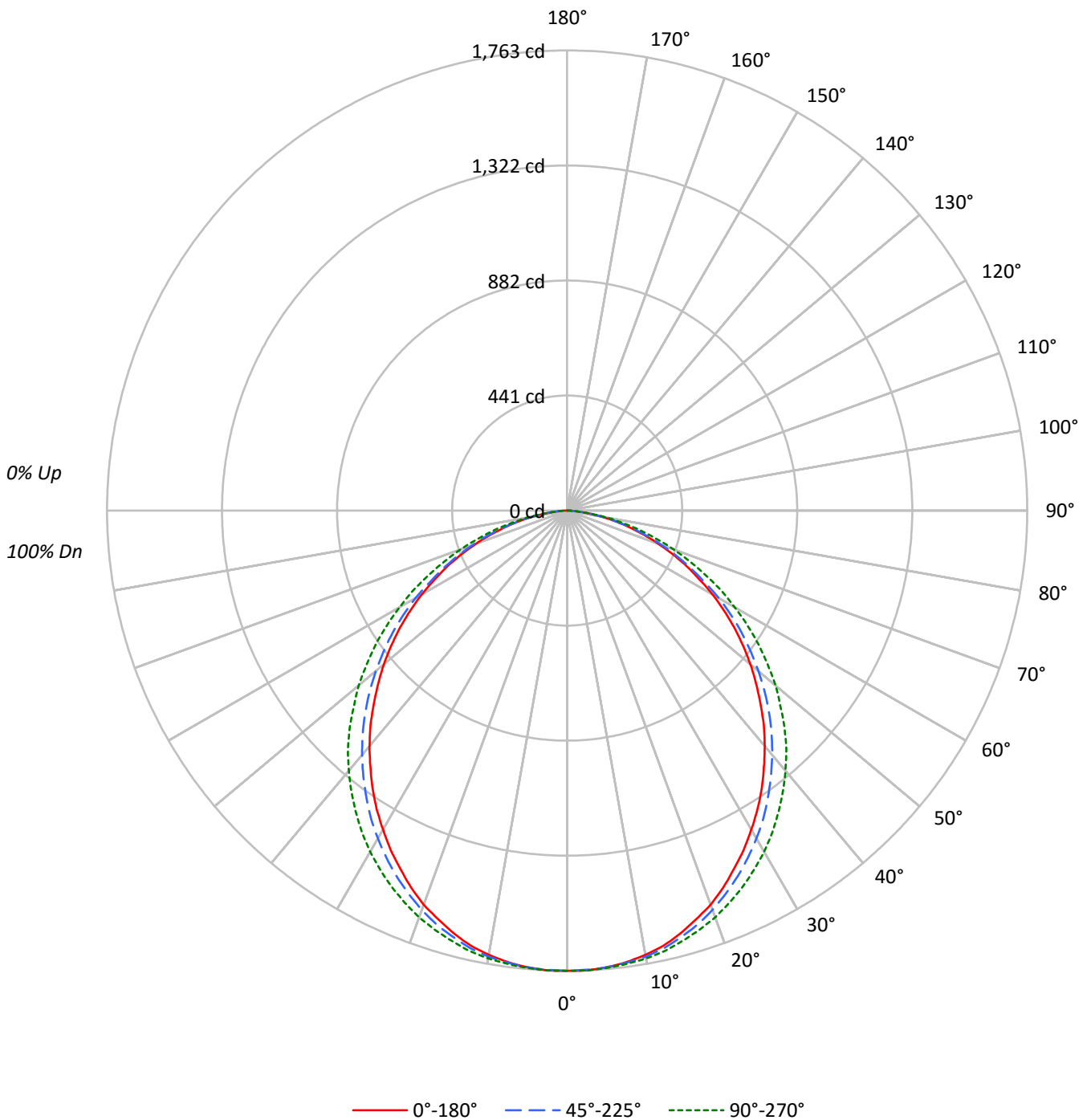
Lumens per Lamp: N/A  
Luminaire Lumens: 4654.9 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.5  
Input Voltage (V): NR  
Input Current (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	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°	4745	4745	4745
5°	4744	4744	4751
10°	4723	4742	4761
15°	4672	4711	4757
20°	4602	4662	4749
25°	4495	4592	4723
30°	4385	4508	4689
35°	4268	4406	4636
40°	4138	4293	4572
45°	3986	4163	4483
50°	3838	4003	4365
55°	3666	3830	4202
60°	3465	3615	3992
65°	3223	3327	3727
70°	2918	3028	3413
75°	2546	2643	2983
80°	2061	2097	2349
85°	1226	1368	1152



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.9	3.6
10°-20°	477.1	10.2
20°-30°	713.7	15.3
30°-40°	843.2	18.1
40°-50°	850.9	18.3
50°-60°	738.9	15.9
60°-70°	529.9	11.4
70°-80°	276.0	5.9
80°-90°	58.3	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°	1357.8	29.2
0°-40°	2201.0	47.3
0°-60°	3790.8	81.4
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°	1763	1763	1763	1763	1763	
5°	1756	1754	1756	1756	1759	167
15°	1677	1679	1691	1703	1707	473
25°	1514	1523	1546	1577	1591	697
35°	1299	1308	1341	1390	1411	812
45°	1047	1059	1094	1150	1178	809
55°	781	788	816	870	896	698
65°	506	504	522	562	585	500
75°	245	243	254	273	287	261
85°	40	44	44	40	37	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1763.3	1763.3	1763.3	1763.3	1763.3
2.5°	1763.3	1761.0	1761.0	1761.0	1763.3
5°	1756.3	1754.0	1756.3	1756.3	1758.7
7.5°	1744.7	1742.3	1747.0	1749.3	1751.7
10°	1728.4	1728.4	1735.3	1740.0	1742.3
12.5°	1707.4	1707.4	1716.7	1723.7	1728.4
15°	1677.0	1679.4	1691.0	1702.7	1707.4
17.5°	1642.0	1649.0	1663.0	1679.4	1684.0
20°	1607.1	1611.7	1628.1	1649.0	1658.4
22.5°	1562.7	1569.7	1588.4	1616.4	1625.7
25°	1513.8	1523.1	1546.4	1576.7	1590.7
27.5°	1464.8	1471.8	1499.8	1534.8	1551.1
30°	1411.1	1420.5	1450.8	1490.4	1509.1
32.5°	1357.5	1364.5	1399.5	1441.5	1462.5
35°	1299.2	1308.5	1341.2	1390.1	1411.1
37.5°	1238.5	1250.2	1282.9	1334.2	1357.5
40°	1177.9	1184.9	1222.2	1273.5	1301.5
42.5°	1114.9	1124.2	1159.2	1215.2	1243.2
45°	1047.3	1058.9	1093.9	1149.9	1177.9
47.5°	982.0	993.6	1026.3	1082.3	1107.9
50°	916.7	923.7	956.3	1012.3	1042.6
52.5°	849.0	856.0	886.3	940.0	968.0
55°	781.4	788.4	816.4	870.0	895.7
57.5°	711.4	716.1	744.1	793.0	818.7
60°	643.8	646.1	671.7	716.1	741.7
62.5°	571.5	573.8	592.4	643.8	667.1
65°	506.1	503.8	522.5	562.1	585.4
67.5°	438.5	438.5	454.8	489.8	508.5
70°	370.9	370.9	384.9	415.2	433.8
72.5°	307.9	307.9	319.5	342.9	356.9
75°	244.9	242.6	254.2	272.9	286.9
77.5°	186.6	186.6	191.3	207.6	216.9
80°	133.0	133.0	135.3	144.6	151.6
82.5°	84.0	84.0	84.0	88.6	91.0
85°	39.7	44.3	44.3	39.7	37.3
87.5°	18.7	18.7	16.3	16.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)