

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: P383969

Luminaire Tested: **22ID-50-L850-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383969  
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-50-L850-CFR2  
Description: 2X2 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

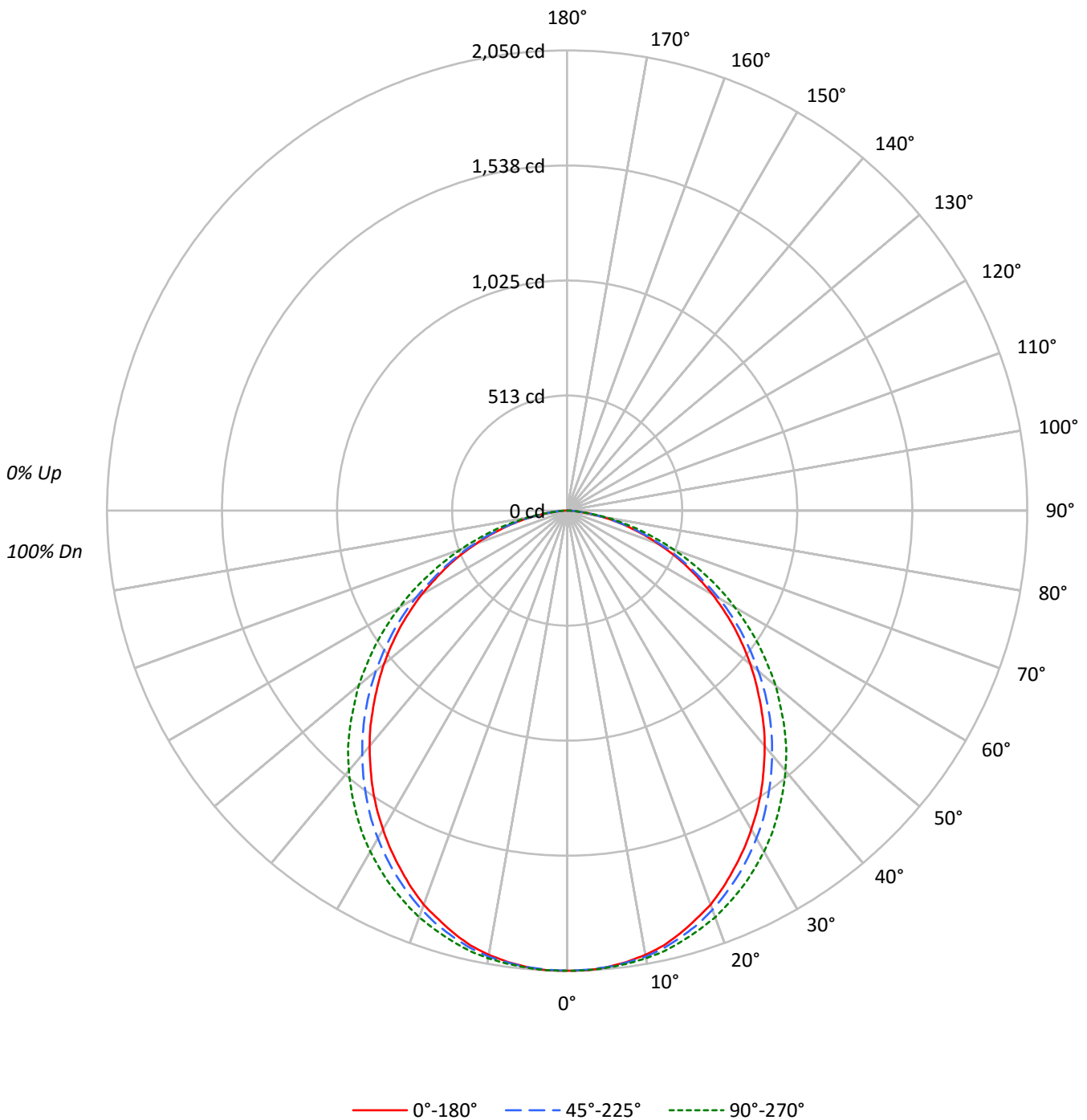
Lumens per Lamp: N/A  
Luminaire Lumens: 5411.2 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 41.5  
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°	5516	5516	5516
5°	5515	5515	5522
10°	5490	5512	5534
15°	5431	5477	5529
20°	5350	5420	5521
25°	5225	5338	5491
30°	5097	5240	5451
35°	4961	5122	5389
40°	4810	4991	5315
45°	4633	4840	5211
50°	4461	4654	5074
55°	4261	4452	4885
60°	4028	4203	4640
65°	3747	3868	4334
70°	3392	3520	3968
75°	2960	3072	3467
80°	2396	2438	2731
85°	1423	1590	1340



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.1	3.6
10°-20°	554.6	10.2
20°-30°	829.7	15.3
30°-40°	980.2	18.1
40°-50°	989.1	18.3
50°-60°	859.0	15.9
60°-70°	616.0	11.4
70°-80°	320.9	5.9
80°-90°	67.7	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°	1578.4	29.2
0°-40°	2558.6	47.3
0°-60°	4406.7	81.4
0°-90°	5411.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5411.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2050	2050	2050	2050	2050	
5°	2042	2039	2042	2042	2044	194
15°	1950	1952	1966	1979	1985	549
25°	1760	1771	1798	1833	1849	811
35°	1510	1521	1559	1616	1640	944
45°	1217	1231	1272	1337	1369	940
55°	908	916	949	1011	1041	811
65°	588	586	607	654	681	582
75°	285	282	296	317	334	304
85°	46	52	52	46	43	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2049.8	2049.8	2049.8	2049.8	2049.8
2.5°	2049.8	2047.1	2047.1	2047.1	2049.8
5°	2041.7	2039.0	2041.7	2041.7	2044.4
7.5°	2028.1	2025.4	2030.9	2033.6	2036.3
10°	2009.2	2009.2	2017.3	2022.7	2025.4
12.5°	1984.8	1984.8	1995.6	2003.7	2009.2
15°	1949.5	1952.2	1965.8	1979.3	1984.8
17.5°	1908.8	1917.0	1933.2	1952.2	1957.6
20°	1868.2	1873.6	1892.6	1917.0	1927.8
22.5°	1816.7	1824.8	1846.5	1879.0	1889.9
25°	1759.7	1770.6	1797.7	1832.9	1849.2
27.5°	1702.8	1710.9	1743.4	1784.1	1803.1
30°	1640.4	1651.3	1686.5	1732.6	1754.3
32.5°	1578.0	1586.2	1626.9	1675.7	1700.1
35°	1510.3	1521.1	1559.1	1616.0	1640.4
37.5°	1439.8	1453.3	1491.3	1550.9	1578.0
40°	1369.3	1377.4	1420.8	1480.4	1513.0
42.5°	1296.1	1306.9	1347.6	1412.7	1445.2
45°	1217.4	1231.0	1271.7	1336.7	1369.3
47.5°	1141.5	1155.1	1193.0	1258.1	1287.9
50°	1065.6	1073.7	1111.7	1176.8	1212.0
52.5°	987.0	995.1	1030.3	1092.7	1125.2
55°	908.3	916.5	949.0	1011.4	1041.2
57.5°	827.0	832.4	864.9	921.9	951.7
60°	748.4	751.1	780.9	832.4	862.2
62.5°	664.3	667.0	688.7	748.4	775.5
65°	588.4	585.7	607.4	653.5	680.6
67.5°	509.7	509.7	528.7	569.4	591.1
70°	431.1	431.1	447.4	482.6	504.3
72.5°	357.9	357.9	371.5	398.6	414.8
75°	284.7	282.0	295.5	317.2	333.5
77.5°	216.9	216.9	222.3	241.3	252.2
80°	154.6	154.6	157.3	168.1	176.2
82.5°	97.6	97.6	97.6	103.0	105.7
85°	46.1	51.5	51.5	46.1	43.4
87.5°	21.7	21.7	19.0	19.0	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)