

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: P383853

Luminaire Tested: **24ID-50-L850-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383853  
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: 24ID-50-L850-CFR1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

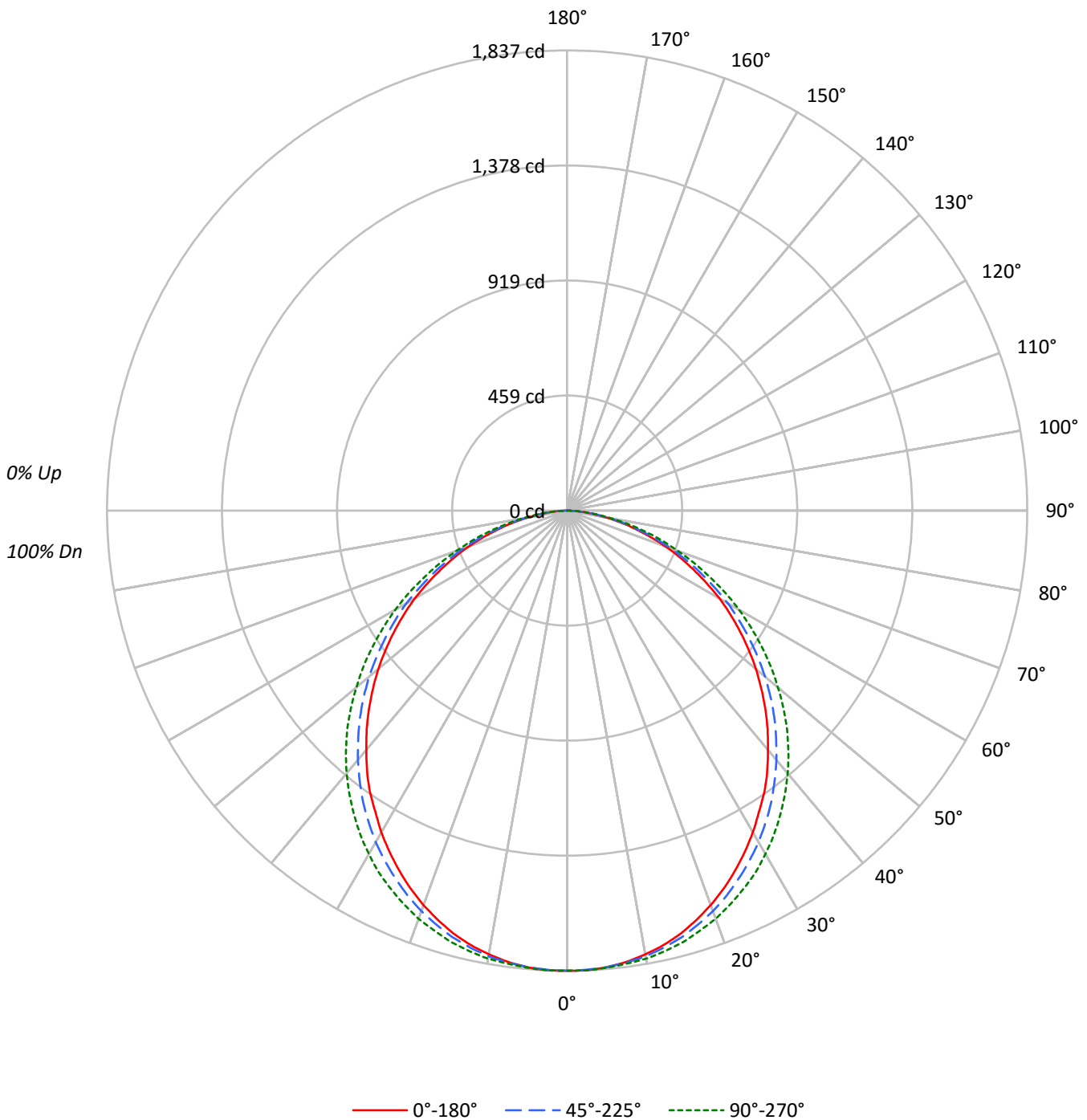
Lumens per Lamp: N/A  
Luminaire Lumens: 4988.7 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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°	2472	2472	2472
5°	2471	2471	2474
10°	2458	2469	2482
15°	2436	2457	2485
20°	2400	2436	2483
25°	2354	2407	2474
30°	2304	2374	2460
35°	2255	2333	2436
40°	2191	2283	2406
45°	2130	2225	2364
50°	2059	2159	2301
55°	1978	2078	2225
60°	1891	1992	2134
65°	1766	1869	1997
70°	1639	1727	1846
75°	1461	1539	1670
80°	1225	1283	1400
85°	929	929	1047



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.9	3.5
10°-20°	497.5	10.0
20°-30°	748.0	15.0
30°-40°	889.8	17.8
40°-50°	905.4	18.1
50°-60°	796.8	16.0
60°-70°	584.5	11.7
70°-80°	317.3	6.4
80°-90°	75.7	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°	1419.3	28.4
0°-40°	2309.1	46.3
0°-60°	4011.3	80.4
0°-90°	4988.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4988.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1837	1837	1837	1837	1837	
5°	1829	1827	1829	1829	1832	174
15°	1749	1752	1764	1774	1784	493
25°	1586	1596	1621	1649	1666	730
35°	1373	1383	1420	1463	1483	857
45°	1119	1129	1169	1220	1242	863
55°	843	856	886	928	949	754
65°	555	565	587	612	627	551
75°	281	286	296	311	321	299
85°	60	60	60	65	68	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1836.9	1836.9	1836.9	1836.9	1836.9
2.5°	1836.9	1834.4	1834.4	1834.4	1836.9
5°	1829.4	1826.8	1829.4	1829.4	1831.9
7.5°	1816.8	1814.3	1819.3	1821.8	1824.3
10°	1799.2	1799.2	1806.8	1811.8	1816.8
12.5°	1776.7	1779.2	1786.7	1794.2	1801.7
15°	1749.1	1751.6	1764.1	1774.1	1784.2
17.5°	1713.9	1718.9	1734.0	1749.1	1759.1
20°	1676.3	1683.8	1701.4	1721.4	1734.0
22.5°	1633.6	1643.7	1663.7	1688.8	1701.4
25°	1585.9	1596.0	1621.1	1648.7	1666.2
27.5°	1535.8	1548.3	1575.9	1608.5	1628.6
30°	1483.1	1495.6	1528.2	1563.4	1583.4
32.5°	1425.3	1440.4	1475.5	1515.7	1535.8
35°	1372.6	1382.7	1420.3	1463.0	1483.1
37.5°	1312.4	1325.0	1360.1	1405.3	1427.8
40°	1247.2	1259.7	1299.9	1345.0	1370.1
42.5°	1184.4	1194.5	1234.6	1284.8	1307.4
45°	1119.2	1129.2	1169.4	1219.6	1242.2
47.5°	1051.4	1064.0	1101.6	1149.3	1171.9
50°	983.7	993.7	1031.4	1076.5	1099.1
52.5°	913.4	923.5	958.6	1003.8	1026.3
55°	843.2	855.7	885.8	928.5	948.6
57.5°	772.9	785.4	813.0	853.2	870.8
60°	702.6	712.7	740.3	775.4	793.0
62.5°	627.3	634.9	662.5	697.6	712.7
65°	554.6	564.6	587.2	612.3	627.3
67.5°	486.8	491.8	511.9	539.5	549.6
70°	416.6	421.6	439.1	461.7	469.3
72.5°	346.3	353.8	366.4	386.4	396.5
75°	281.1	286.1	296.1	311.2	321.2
77.5°	218.3	220.8	228.4	240.9	248.4
80°	158.1	160.6	165.6	175.7	180.7
82.5°	105.4	107.9	110.4	115.4	120.5
85°	60.2	60.2	60.2	65.2	67.8
87.5°	22.6	20.1	20.1	20.1	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)