

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: P383857

Luminaire Tested: **24ID-55-L850-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383857
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-55-L850-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

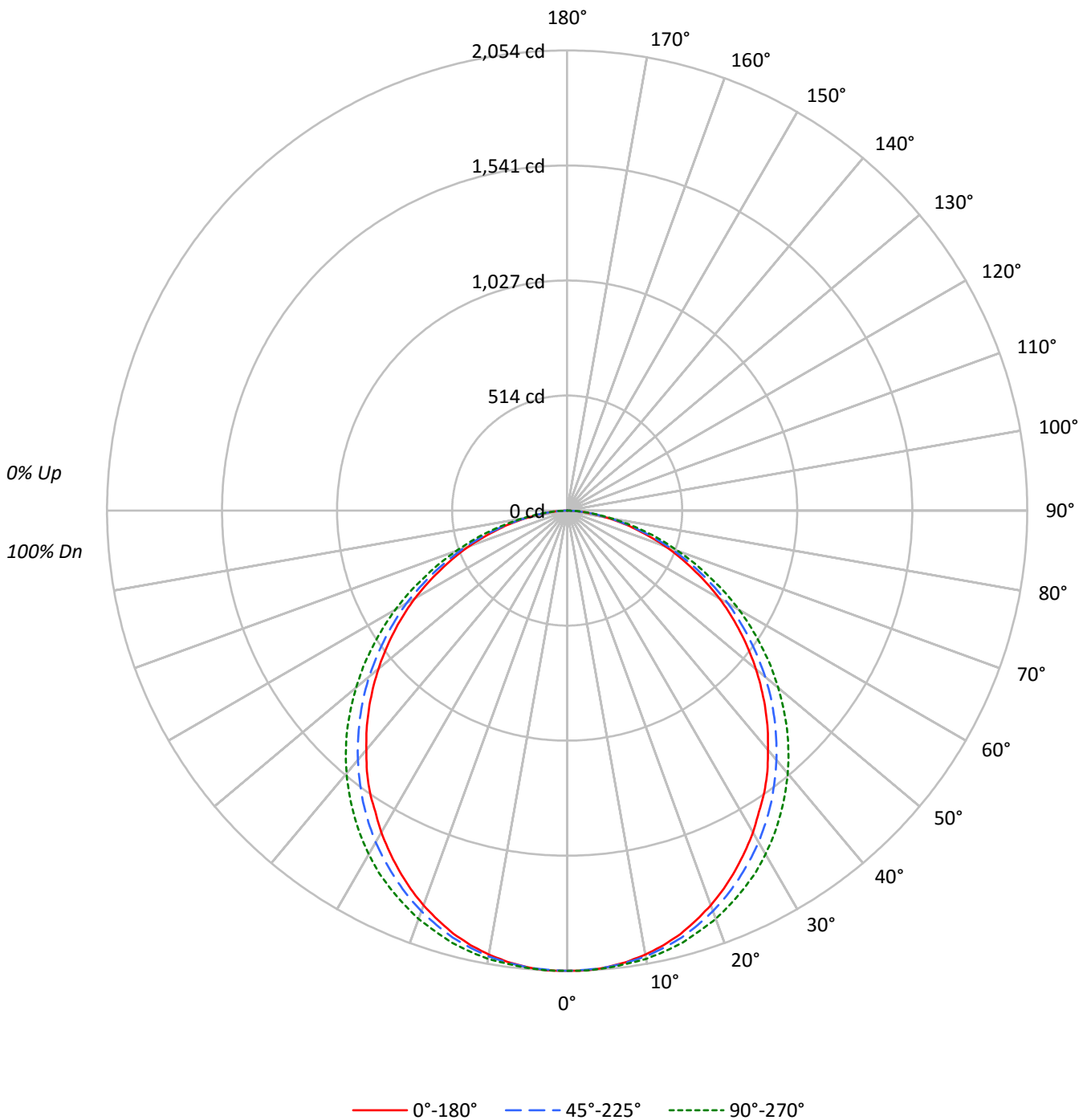
Lumens per Lamp: N/A
Luminaire Lumens: 5579.3 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 50.2
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°	2764	2764	2764
5°	2763	2763	2767
10°	2749	2761	2776
15°	2725	2748	2779
20°	2684	2725	2777
25°	2633	2692	2767
30°	2577	2655	2751
35°	2521	2609	2724
40°	2450	2553	2691
45°	2382	2488	2643
50°	2303	2415	2573
55°	2212	2324	2488
60°	2115	2228	2386
65°	1975	2091	2234
70°	1833	1932	2065
75°	1634	1722	1867
80°	1370	1435	1566
85°	1041	1041	1170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.4	3.5
10°-20°	556.3	10.0
20°-30°	836.5	15.0
30°-40°	995.1	17.8
40°-50°	1012.6	18.1
50°-60°	891.1	16.0
60°-70°	653.7	11.7
70°-80°	354.8	6.4
80°-90°	84.7	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°	1587.3	28.4
0°-40°	2582.4	46.3
0°-60°	4486.1	80.4
0°-90°	5579.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5579.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2054	2054	2054	2054	2054	
5°	2046	2043	2046	2046	2049	194
15°	1956	1959	1973	1984	1995	551
25°	1774	1785	1813	1844	1864	817
35°	1535	1546	1588	1636	1659	959
45°	1252	1263	1308	1364	1389	965
55°	943	957	991	1038	1061	843
65°	620	632	657	685	702	616
75°	314	320	331	348	359	334
85°	67	67	67	73	76	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2054.3	2054.3	2054.3	2054.3	2054.3
2.5°	2054.3	2051.5	2051.5	2051.5	2054.3
5°	2045.9	2043.1	2045.9	2045.9	2048.7
7.5°	2031.9	2029.1	2034.7	2037.5	2040.3
10°	2012.2	2012.2	2020.7	2026.3	2031.9
12.5°	1987.0	1989.8	1998.2	2006.6	2015.1
15°	1956.1	1958.9	1973.0	1984.2	1995.4
17.5°	1916.8	1922.4	1939.3	1956.1	1967.3
20°	1874.7	1883.1	1902.8	1925.2	1939.3
22.5°	1827.0	1838.2	1860.7	1888.8	1902.8
25°	1773.7	1784.9	1813.0	1843.9	1863.5
27.5°	1717.6	1731.6	1762.5	1799.0	1821.4
30°	1658.6	1672.7	1709.1	1748.4	1770.9
32.5°	1594.1	1610.9	1650.2	1695.1	1717.6
35°	1535.1	1546.4	1588.5	1636.2	1658.6
37.5°	1467.8	1481.8	1521.1	1571.6	1596.9
40°	1394.8	1408.9	1453.8	1504.3	1532.3
42.5°	1324.7	1335.9	1380.8	1436.9	1462.2
45°	1251.7	1262.9	1307.8	1363.9	1389.2
47.5°	1175.9	1189.9	1232.0	1285.4	1310.6
50°	1100.1	1111.4	1153.5	1204.0	1229.2
52.5°	1021.6	1032.8	1072.1	1122.6	1147.9
55°	943.0	957.0	990.7	1038.4	1060.8
57.5°	864.4	878.4	909.3	954.2	973.8
60°	785.8	797.0	827.9	867.2	886.8
62.5°	701.6	710.0	740.9	780.2	797.0
65°	620.2	631.5	656.7	684.8	701.6
67.5°	544.5	550.1	572.5	603.4	614.6
70°	465.9	471.5	491.1	516.4	524.8
72.5°	387.3	395.7	409.7	432.2	443.4
75°	314.3	319.9	331.2	348.0	359.2
77.5°	244.2	247.0	255.4	269.4	277.8
80°	176.8	179.6	185.2	196.5	202.1
82.5°	117.9	120.7	123.5	129.1	134.7
85°	67.4	67.4	67.4	73.0	75.8
87.5°	25.3	22.5	22.5	22.5	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)