

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: P385369

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-55-L850-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

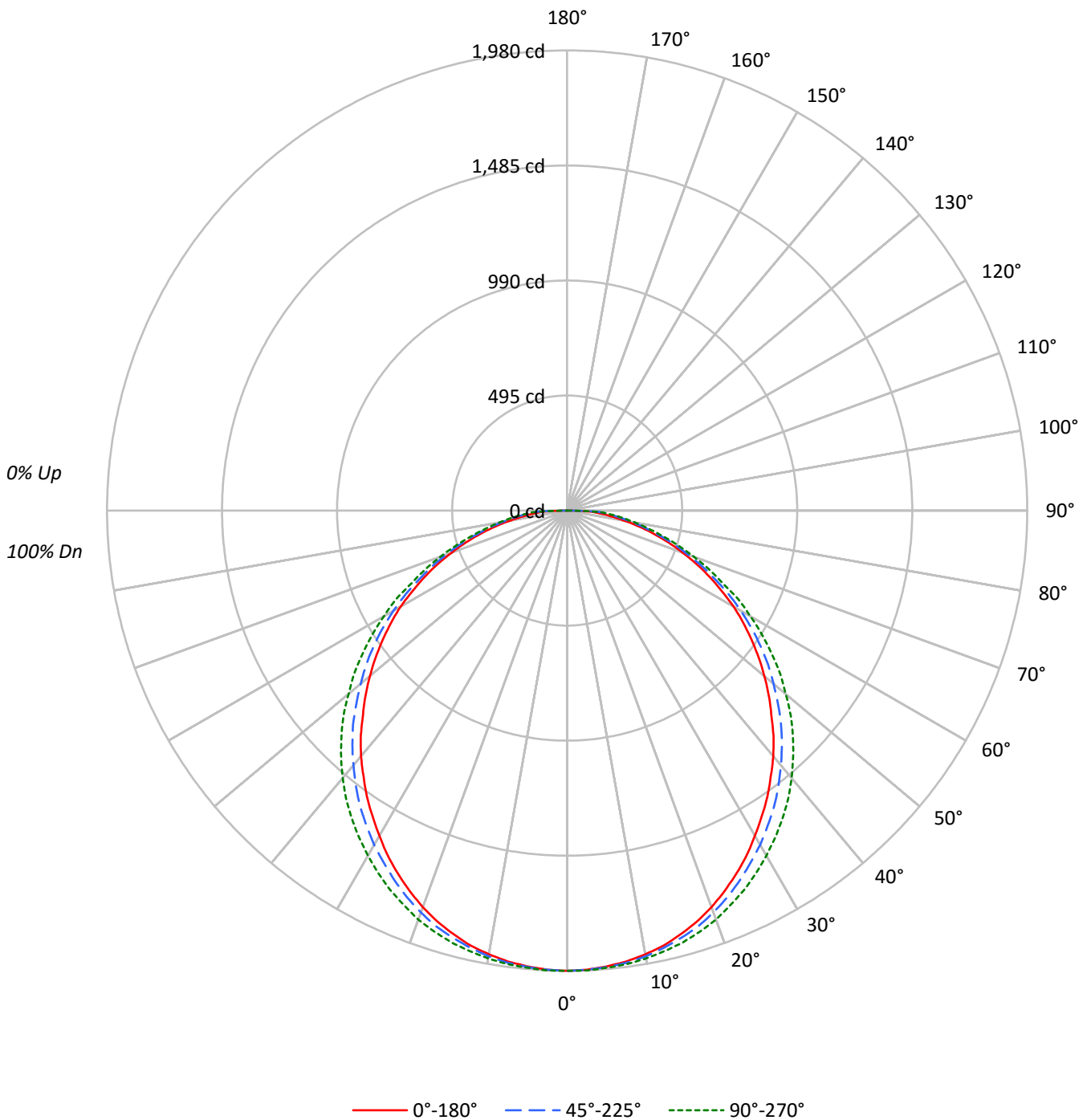
Lumens per Lamp: N/A
Luminaire Lumens: 5743.6 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 50.2
Input Voltage (V): NR
Input Current (A_{in}): 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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2664	2664	2664
5°	2649	2642	2647
10°	2629	2620	2634
15°	2600	2589	2621
20°	2561	2552	2603
25°	2510	2504	2574
30°	2452	2455	2541
35°	2398	2402	2508
40°	2342	2339	2466
45°	2270	2277	2413
50°	2210	2195	2337
55°	2143	2115	2254
60°	2077	2014	2142
65°	1981	1887	1993
70°	1866	1749	1855
75°	1733	1600	1694
80°	1554	1449	1556
85°	1468	1376	1488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.4	3.3
10°-20°	537.0	9.3
20°-30°	810.3	14.1
30°-40°	972.6	16.9
40°-50°	1006.6	17.5
50°-60°	911.9	15.9
60°-70°	702.6	12.2
70°-80°	434.7	7.6
80°-90°	180.6	3.1
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°	1534.7	26.7
0°-40°	2507.3	43.7
0°-60°	4425.8	77.1
0°-90°	5743.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5743.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1980	1980	1980	1980	1980	
5°	1968	1968	1971	1971	1974	187
15°	1888	1891	1903	1915	1924	532
25°	1723	1729	1756	1786	1801	794
35°	1502	1514	1553	1595	1616	939
45°	1242	1260	1302	1350	1374	961
55°	968	983	1016	1060	1075	866
65°	678	684	705	735	738	670
75°	385	394	409	427	427	408
85°	140	155	179	191	188	152
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1980.3	1980.3	1980.3	1980.3	1980.3
2.5°	1977.3	1977.3	1977.3	1977.3	1980.3
5°	1968.3	1968.3	1971.3	1971.3	1974.3
7.5°	1956.4	1956.4	1962.4	1962.4	1968.3
10°	1938.5	1941.4	1947.4	1950.4	1956.4
12.5°	1917.6	1917.6	1926.5	1935.5	1941.4
15°	1887.7	1890.7	1902.6	1914.6	1923.5
17.5°	1854.8	1857.8	1875.7	1887.7	1899.6
20°	1816.0	1819.0	1839.9	1857.8	1872.8
22.5°	1771.2	1777.2	1801.1	1825.0	1836.9
25°	1723.4	1729.4	1756.3	1786.1	1801.1
27.5°	1672.6	1681.6	1708.5	1741.3	1759.3
30°	1615.9	1627.8	1660.7	1696.5	1714.4
32.5°	1559.1	1571.1	1606.9	1648.7	1666.7
35°	1502.4	1514.3	1553.2	1595.0	1615.9
37.5°	1439.7	1451.6	1493.4	1538.2	1562.1
40°	1379.9	1391.9	1430.7	1481.5	1502.4
42.5°	1314.2	1326.2	1368.0	1415.8	1439.7
45°	1242.5	1260.4	1302.3	1350.1	1373.9
47.5°	1176.8	1191.8	1230.6	1281.4	1305.3
50°	1108.1	1123.1	1158.9	1209.7	1227.6
52.5°	1039.4	1054.4	1090.2	1138.0	1155.9
55°	967.7	982.7	1015.5	1060.3	1075.3
57.5°	899.0	911.0	940.9	982.7	994.6
60°	827.4	839.3	863.2	902.0	911.0
62.5°	749.7	758.7	785.5	821.4	833.3
65°	678.0	684.0	704.9	734.8	737.8
67.5°	603.3	609.3	630.2	651.1	660.1
70°	528.7	537.6	552.6	573.5	579.4
72.5°	457.0	465.9	480.9	498.8	501.8
75°	385.3	394.3	409.2	427.1	427.1
77.5°	316.6	325.6	343.5	358.4	358.4
80°	247.9	262.8	280.8	295.7	295.7
82.5°	191.2	203.1	227.0	238.9	238.9
85°	140.4	155.3	179.2	191.2	188.2
87.5°	101.6	116.5	137.4	146.4	143.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)