

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: METALUX

Report Number: P#

Luminaire Tested: **4ILED-LD5-5-W-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34173)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-5-W-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH OPEN WIDE DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

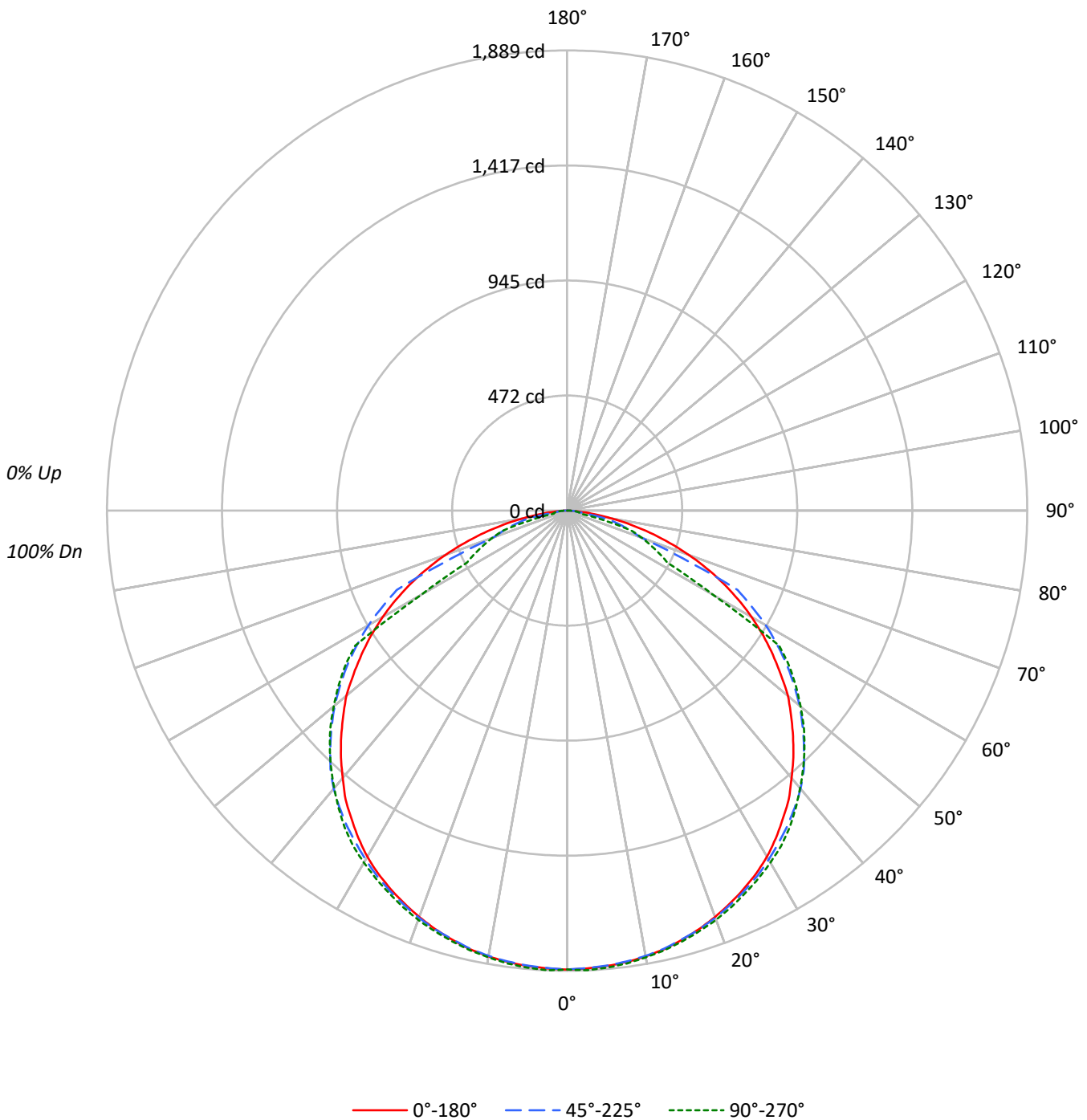
Lumens per Lamp: N/A
Luminaire Lumens: 5437.0 lumens
Efficiency: N/A
Efficacy: 162.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V):
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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87					85				
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73					71				
3	91	81	73	66	89	79	72	66	76	70	65	73	68	63	71	66	62					60				
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54					51				
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47					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	41	36	47	41	36					34				
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32					30				
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29					27				
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26					25				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5531	5531	5531
5°	5518	5480	5497
10°	5516	5442	5447
15°	5507	5400	5404
20°	5496	5372	5372
25°	5489	5342	5338
30°	5483	5317	5321
35°	5439	5303	5296
40°	5379	5292	5224
45°	5312	5213	5157
50°	5248	5111	5055
55°	5091	4962	4931
60°	4924	4753	3424
65°	4660	4457	2349
70°	4261	2171	2150
75°	3643	1886	1343
80°	2699	1114	548
85°	1336	558	507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	3.3
10°-20°	516.0	9.5
20°-30°	795.7	14.6
30°-40°	985.2	18.1
40°-50°	1048.8	19.3
50°-60°	967.8	17.8
60°-70°	619.6	11.4
70°-80°	279.1	5.1
80°-90°	46.1	0.8
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°	1490.4	27.4
0°-40°	2475.6	45.5
0°-60°	4492.2	82.6
0°-90°	5437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5437.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1884	1884	1884	1884	1884	
5°	1877	1880	1875	1880	1883	179
15°	1824	1827	1822	1831	1830	515
25°	1714	1719	1722	1733	1732	791
35°	1544	1560	1578	1594	1591	967
45°	1312	1339	1375	1384	1378	1012
55°	1030	1068	1101	1119	1114	921
65°	707	741	772	426	417	698
75°	351	382	225	231	167	373
85°	51	38	34	37	34	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1884.1	1884.1	1884.1	1884.1	1884.1
2.5°	1881.1	1884.8	1879.6	1884.8	1888.6
5°	1876.6	1879.6	1875.1	1880.3	1883.3
7.5°	1869.1	1872.1	1866.8	1872.1	1875.1
10°	1858.6	1860.1	1856.3	1861.6	1862.3
12.5°	1843.6	1845.1	1842.1	1847.3	1848.1
15°	1824.0	1827.0	1821.8	1830.8	1830.0
17.5°	1801.5	1804.5	1802.3	1809.0	1809.8
20°	1775.3	1778.3	1779.0	1787.3	1788.0
22.5°	1746.0	1750.5	1751.3	1762.5	1761.8
25°	1714.5	1719.0	1722.0	1733.3	1731.8
27.5°	1680.0	1686.0	1690.5	1701.7	1701.7
30°	1641.0	1649.2	1654.5	1669.5	1668.7
32.5°	1594.4	1610.2	1616.2	1635.0	1633.5
35°	1544.2	1559.9	1577.9	1594.4	1590.7
37.5°	1494.7	1510.4	1535.2	1544.9	1540.4
40°	1433.1	1459.4	1490.9	1494.7	1487.9
42.5°	1374.6	1395.6	1438.4	1440.6	1434.6
45°	1311.6	1338.6	1374.6	1383.6	1377.6
47.5°	1246.3	1269.6	1311.6	1322.8	1318.3
50°	1183.3	1204.3	1245.5	1256.8	1250.8
52.5°	1106.0	1137.5	1172.8	1190.8	1184.0
55°	1030.2	1067.7	1100.7	1118.7	1113.5
57.5°	954.4	995.7	1020.4	1045.2	1032.5
60°	874.9	915.4	942.4	931.2	693.3
62.5°	792.3	831.4	853.9	572.5	464.5
65°	706.8	740.6	772.1	426.2	417.2
67.5°	619.8	653.5	514.0	378.9	370.7
70°	530.5	562.0	318.9	330.1	325.6
72.5°	440.4	470.5	273.9	286.6	280.6
75°	351.2	381.9	225.1	231.1	166.6
77.5°	267.9	263.4	181.6	127.6	57.0
80°	182.3	121.6	101.3	53.3	52.5
82.5°	113.3	81.8	42.8	47.3	46.5
85°	51.0	38.3	34.5	36.8	33.8
87.5°	18.0	18.8	21.0	19.5	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)