

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-CL-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 (P34177)
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-CL-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

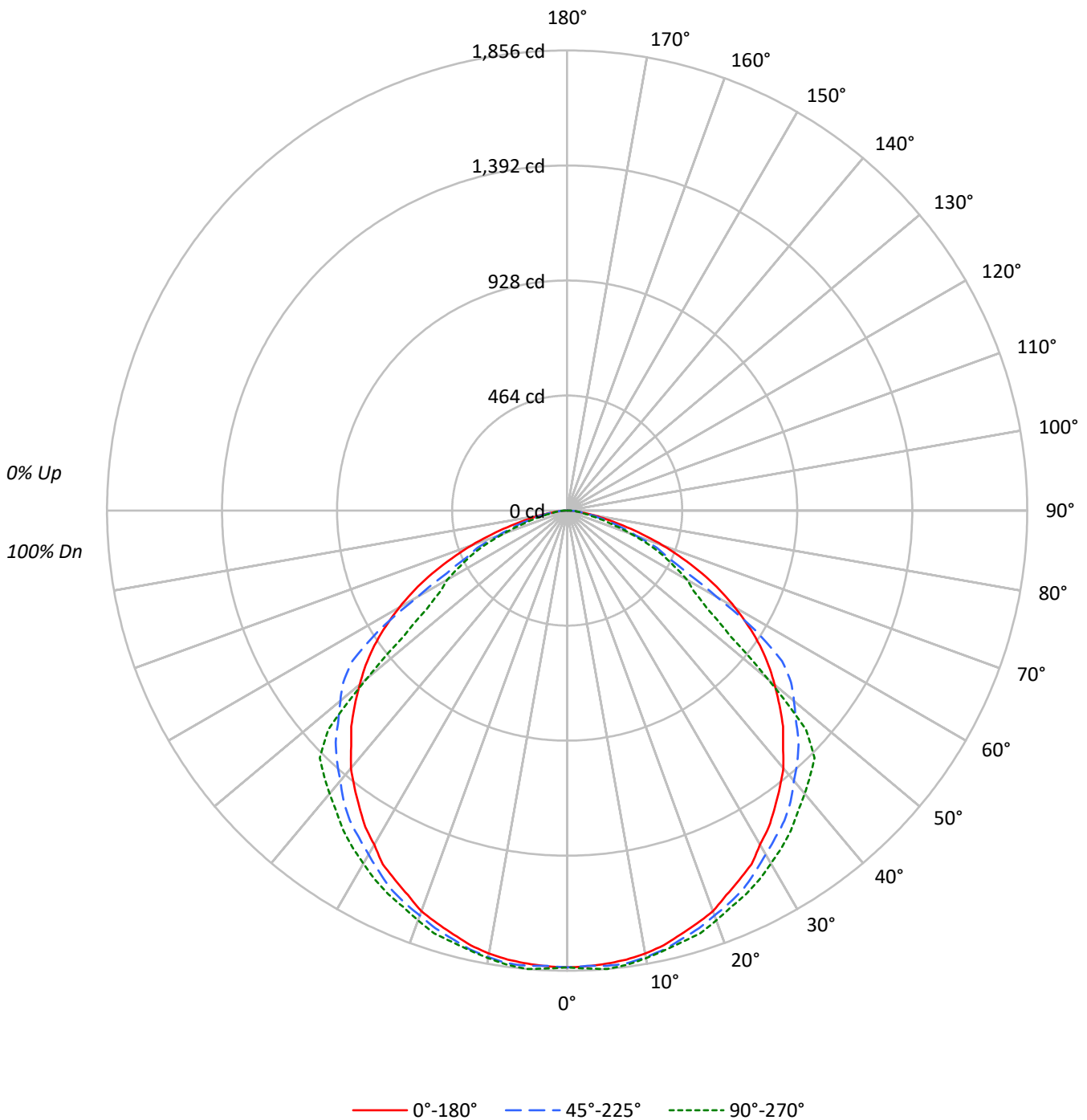
Lumens per Lamp: N/A
Luminaire Lumens: 4990.0 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V):
Input Current (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	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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64					62				
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55					53				
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48					46				
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43					41				
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38					36				
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34					32				
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31					29				
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5409	5409	5409
5°	5394	5387	5418
10°	5384	5363	5361
15°	5343	5301	5317
20°	5324	5249	5284
25°	5261	5222	5261
30°	5199	5148	5242
35°	5145	5133	5240
40°	5092	5052	5234
45°	4987	5007	5282
50°	4845	4901	4272
55°	4690	4772	3056
60°	4404	3519	2760
65°	3962	2577	2399
70°	3302	2018	1804
75°	2420	1490	1203
80°	1544	1039	752
85°	768	619	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	3.5
10°-20°	506.2	10.1
20°-30°	775.0	15.5
30°-40°	954.0	19.1
40°-50°	1011.1	20.3
50°-60°	812.1	16.3
60°-70°	504.7	10.1
70°-80°	207.7	4.2
80°-90°	43.5	0.9
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°	1456.9	29.2
0°-40°	2410.9	48.3
0°-60°	4234.1	84.9
0°-90°	4990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4990.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1843	1843	1843	1843	1843	
5°	1834	1839	1843	1853	1856	174
15°	1770	1795	1789	1801	1801	500
25°	1643	1660	1684	1702	1707	758
35°	1461	1497	1528	1566	1574	915
45°	1231	1258	1320	1384	1411	947
55°	949	991	1059	756	690	845
65°	601	644	446	424	426	592
75°	233	215	178	159	149	256
85°	29	36	38	38	38	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1842.6	1842.6	1842.6	1842.6	1842.6
2.5°	1839.6	1841.9	1838.1	1846.4	1848.6
5°	1834.4	1838.9	1843.4	1853.1	1856.1
7.5°	1826.9	1836.6	1841.9	1847.9	1847.9
10°	1814.1	1829.1	1829.1	1831.4	1832.9
12.5°	1796.1	1816.4	1812.6	1814.1	1816.4
15°	1769.8	1794.6	1788.6	1800.6	1800.6
17.5°	1745.1	1766.1	1766.8	1781.8	1787.1
20°	1719.6	1736.8	1738.3	1760.1	1758.6
22.5°	1678.3	1704.6	1712.1	1724.1	1730.1
25°	1643.1	1660.3	1683.6	1702.3	1706.8
27.5°	1609.3	1623.5	1642.3	1674.6	1678.3
30°	1556.0	1586.0	1601.8	1644.6	1643.8
32.5°	1514.0	1541.0	1563.5	1604.8	1610.8
35°	1460.7	1496.8	1527.5	1565.8	1574.0
37.5°	1409.0	1442.0	1480.2	1517.8	1529.0
40°	1356.5	1386.5	1423.2	1468.2	1490.7
42.5°	1288.9	1325.7	1373.7	1425.5	1451.0
45°	1231.2	1258.2	1320.4	1383.5	1411.2
47.5°	1161.4	1196.7	1251.4	1331.7	1306.2
50°	1092.4	1132.9	1194.4	1206.4	1057.1
52.5°	1024.1	1064.6	1138.9	954.3	826.8
55°	949.1	991.1	1058.6	755.5	690.2
57.5°	867.3	907.1	901.1	627.2	604.7
60°	782.5	821.5	697.7	549.2	558.9
62.5°	694.7	736.7	547.7	501.9	486.9
65°	601.0	643.7	446.4	423.9	426.1
67.5°	503.4	539.4	391.6	361.6	354.1
70°	411.1	421.6	296.3	288.1	273.1
72.5°	318.9	305.4	235.6	217.6	201.8
75°	233.3	214.6	177.8	159.1	149.3
77.5°	162.1	148.5	128.3	135.0	99.8
80°	104.3	96.8	94.5	75.0	72.0
82.5°	61.5	60.8	58.5	54.0	52.5
85°	29.3	36.0	38.3	38.3	37.5
87.5°	10.5	18.0	24.0	25.5	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)