

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-LD5-7-W-FLWG-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 (P34182)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-7-W-FLWG-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

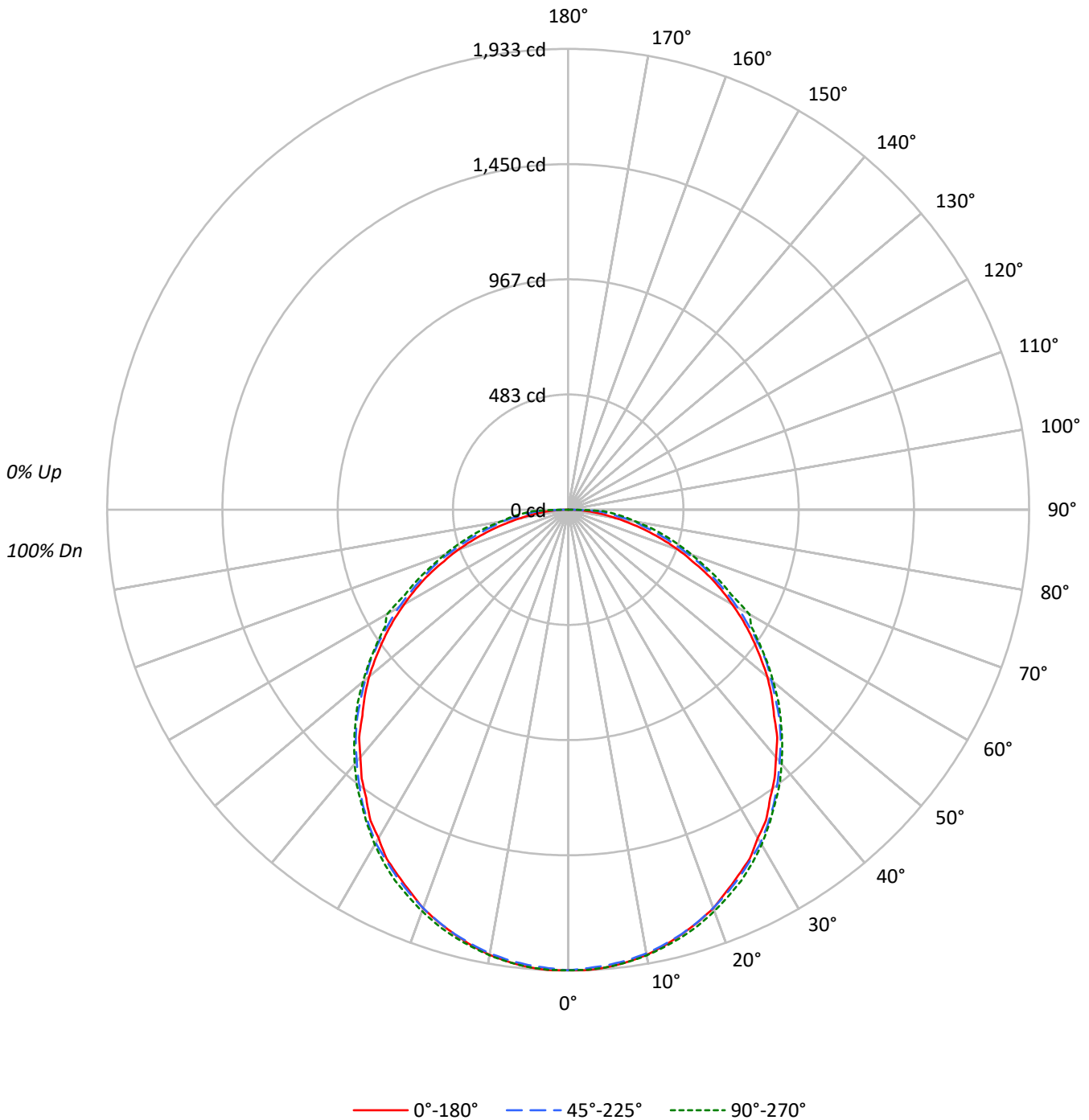
Lumens per Lamp: N/A
Luminaire Lumens: 5494.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 50.4
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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5671	5671	5671
5°	5662	5603	5621
10°	5627	5541	5552
15°	5565	5460	5474
20°	5508	5370	5384
25°	5413	5274	5292
30°	5314	5186	5173
35°	5201	5054	5025
40°	5087	4898	4888
45°	4943	4756	4722
50°	4833	4558	4541
55°	4661	4371	4336
60°	4472	4135	4336
65°	4252	3869	3928
70°	3936	3588	3633
75°	3543	3241	3373
80°	2997	3047	3005
85°	2428	2590	2860



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	3.3
10°-20°	521.0	9.5
20°-30°	784.6	14.3
30°-40°	938.4	17.1
40°-50°	963.7	17.5
50°-60°	865.4	15.8
60°-70°	665.9	12.1
70°-80°	410.4	7.5
80°-90°	161.9	2.9
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°	1488.3	27.1
0°-40°	2426.7	44.2
0°-60°	4255.8	77.5
0°-90°	5494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1932	1932	1932	1932	1932	
5°	1926	1925	1917	1925	1926	183
15°	1843	1847	1842	1850	1854	520
25°	1691	1693	1700	1713	1717	780
35°	1477	1498	1504	1509	1509	926
45°	1220	1240	1254	1260	1262	945
55°	943	956	970	980	979	843
65°	645	651	670	694	698	636
75°	342	359	387	412	418	361
85°	93	123	160	183	191	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1931.9	1931.9	1931.9	1931.9	1931.9
2.5°	1933.0	1931.9	1924.6	1929.8	1931.9
5°	1925.6	1924.6	1917.2	1924.6	1925.6
7.5°	1913.0	1913.0	1905.6	1913.0	1914.0
10°	1896.1	1896.1	1889.8	1896.1	1898.2
12.5°	1871.9	1874.0	1867.6	1875.0	1877.1
15°	1843.4	1846.6	1842.3	1849.7	1853.9
17.5°	1812.8	1813.9	1811.8	1821.3	1825.5
20°	1779.1	1778.1	1778.1	1790.7	1791.8
22.5°	1733.8	1739.1	1740.1	1753.8	1754.9
25°	1690.6	1692.7	1700.1	1712.7	1716.9
27.5°	1649.5	1648.4	1655.8	1667.4	1671.6
30°	1590.4	1601.0	1613.6	1617.8	1622.1
32.5°	1544.1	1547.2	1559.9	1564.1	1567.3
35°	1476.6	1497.7	1504.0	1509.3	1509.3
37.5°	1421.8	1433.4	1441.8	1451.3	1455.5
40°	1355.4	1370.2	1379.7	1389.1	1392.3
42.5°	1297.4	1306.9	1318.5	1325.9	1328.0
45°	1220.5	1239.5	1254.2	1259.5	1261.6
47.5°	1157.3	1178.3	1180.4	1193.1	1196.3
50°	1089.8	1105.6	1110.9	1125.6	1123.5
52.5°	1015.0	1033.9	1046.6	1050.8	1051.9
55°	943.3	956.0	969.7	980.2	979.1
57.5°	870.6	881.1	892.7	908.5	909.6
60°	794.7	807.3	820.0	835.8	878.0
62.5°	720.9	728.3	743.1	773.6	770.5
65°	645.0	651.4	670.3	693.5	697.7
67.5°	562.8	575.5	603.9	618.7	620.8
70°	490.1	501.7	527.0	546.0	550.2
72.5°	413.2	426.9	454.3	478.5	484.8
75°	341.5	359.4	386.8	412.1	418.4
77.5°	267.7	290.9	323.6	384.7	355.2
80°	202.4	228.7	277.2	284.6	287.7
82.5°	144.4	172.9	207.6	232.9	241.4
85°	92.7	123.3	160.2	183.4	190.8
87.5°	51.6	81.2	120.2	143.3	149.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)