

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-LD5-9-W-FL-UNV-L835-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 (P34181)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-9-W-FL-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

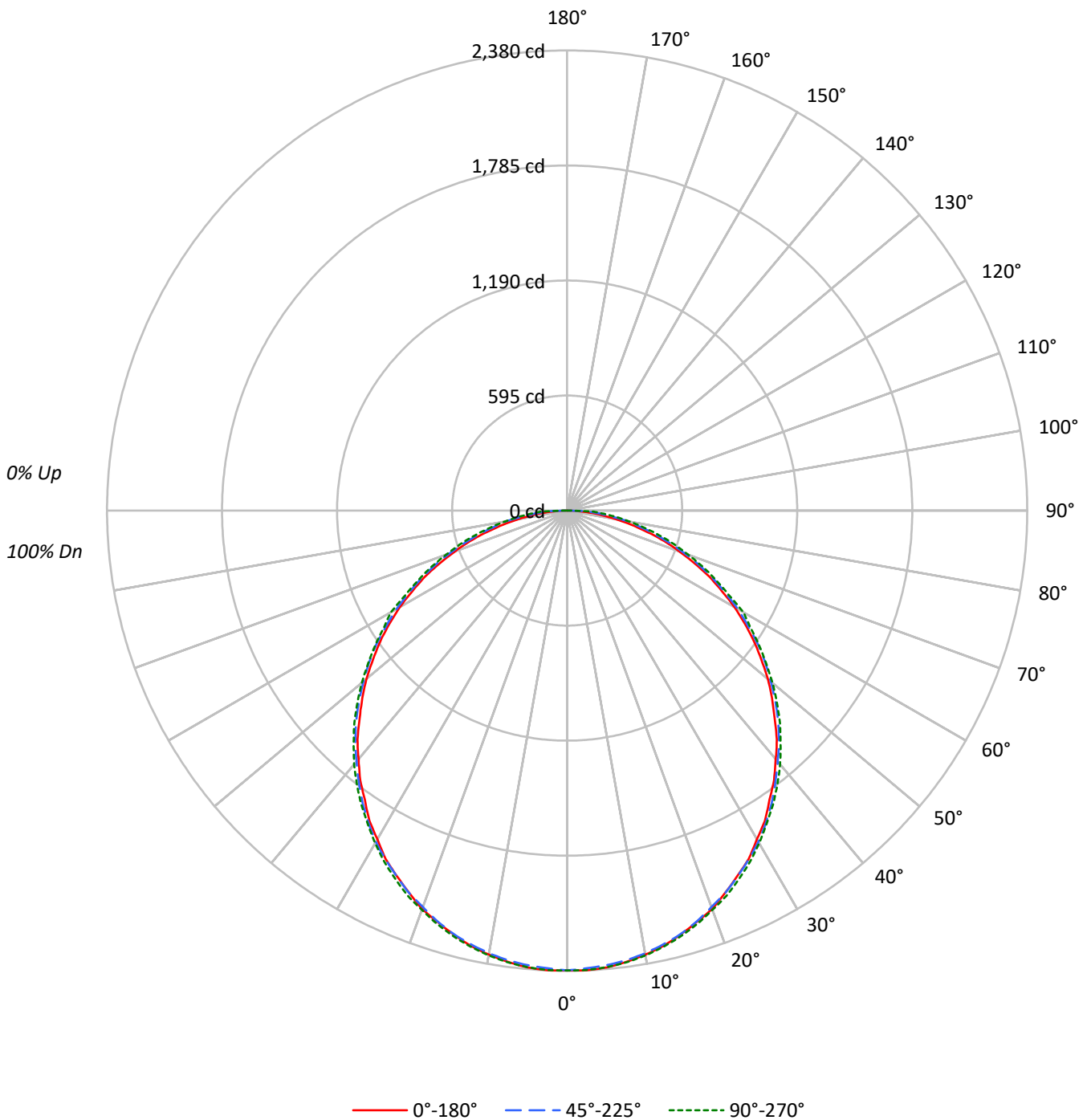
Lumens per Lamp: N/A
Luminaire Lumens: 6735.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 65.7
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	106	101	97	93	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43					43			
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	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	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°	6983	6983	6983
5°	6973	6898	6918
10°	6922	6816	6832
15°	6853	6721	6728
20°	6790	6590	6605
25°	6674	6474	6482
30°	6558	6359	6337
35°	6427	6198	6181
40°	6300	6014	6017
45°	6146	5851	5826
50°	6010	5641	5605
55°	5835	5427	5364
60°	5622	5143	5198
65°	5356	4816	4773
70°	4957	4394	4390
75°	4467	3924	3963
80°	3829	3486	3427
85°	3036	2583	2853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	3.3
10°-20°	640.8	9.5
20°-30°	964.3	14.3
30°-40°	1153.6	17.1
40°-50°	1188.8	17.7
50°-60°	1071.8	15.9
60°-70°	823.2	12.2
70°-80°	495.6	7.4
80°-90°	171.8	2.6
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°	1829.9	27.2
0°-40°	2983.6	44.3
0°-60°	5244.3	77.9
0°-90°	6735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2379	2379	2379	2379	2379	
5°	2371	2369	2360	2369	2370	225
15°	2270	2272	2268	2277	2279	641
25°	2085	2086	2087	2099	2103	961
35°	1825	1843	1844	1855	1856	1144
45°	1517	1531	1543	1555	1556	1173
55°	1181	1190	1204	1211	1211	1054
65°	812	815	834	844	848	801
75°	431	443	468	486	492	457
85°	116	134	160	182	190	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2378.6	2378.6	2378.6	2378.6	2378.6
2.5°	2379.8	2378.6	2368.8	2376.2	2378.6
5°	2371.3	2368.8	2360.3	2368.8	2370.1
7.5°	2354.2	2353.0	2345.7	2354.2	2356.7
10°	2332.3	2332.3	2324.9	2333.5	2335.9
12.5°	2305.4	2304.2	2298.1	2307.9	2310.3
15°	2270.0	2272.5	2267.6	2277.4	2278.6
17.5°	2231.0	2232.2	2228.6	2237.1	2240.8
20°	2193.2	2187.1	2182.2	2196.9	2198.1
22.5°	2138.3	2140.7	2139.5	2152.9	2155.4
25°	2084.6	2085.9	2087.1	2099.3	2102.9
27.5°	2032.2	2031.0	2034.6	2044.4	2048.0
30°	1962.7	1972.4	1978.5	1985.8	1987.1
32.5°	1902.9	1906.5	1913.9	1918.7	1920.0
35°	1824.8	1843.1	1844.3	1855.3	1856.5
37.5°	1757.7	1763.8	1769.9	1783.3	1785.8
40°	1678.4	1687.0	1694.3	1706.5	1713.8
42.5°	1605.3	1615.0	1622.3	1633.3	1634.5
45°	1517.4	1530.8	1543.0	1555.2	1556.5
47.5°	1436.9	1450.3	1460.1	1469.9	1471.1
50°	1355.2	1366.2	1374.7	1386.9	1386.9
52.5°	1264.9	1278.3	1291.8	1296.6	1296.6
55°	1180.8	1190.5	1203.9	1211.3	1211.3
57.5°	1089.3	1094.2	1108.8	1122.2	1122.2
60°	999.0	1005.1	1019.8	1029.5	1052.7
62.5°	902.7	912.4	922.2	953.9	940.5
65°	812.4	814.8	834.3	844.1	847.8
67.5°	712.4	720.9	740.4	751.4	758.7
70°	617.2	628.2	645.3	658.7	664.8
72.5°	527.0	531.8	553.8	572.1	580.6
75°	430.6	442.8	468.4	485.5	491.6
77.5°	339.1	358.6	383.0	442.8	408.6
80°	258.6	273.2	317.1	319.6	328.1
82.5°	180.5	197.6	226.9	246.4	256.2
85°	115.9	134.2	159.8	181.7	190.3
87.5°	53.7	73.2	106.1	130.5	137.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)