

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-CL-UNV-L840-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-LD5-7-W-CL-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

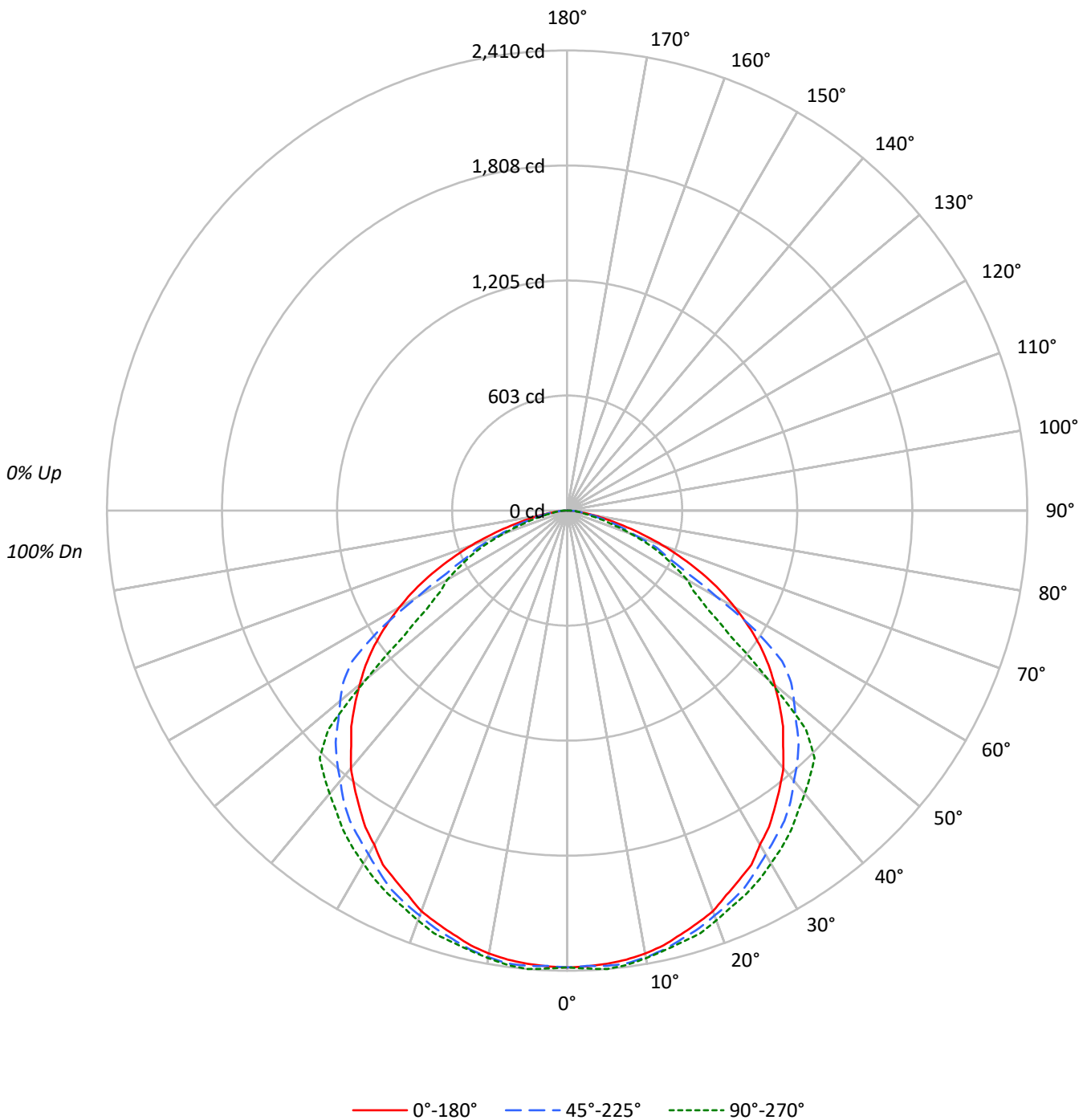
Lumens per Lamp: N/A
Luminaire Lumens: 6480.0 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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	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°	7024	7024	7024
5°	7004	6996	7036
10°	6992	6964	6961
15°	6938	6884	6905
20°	6913	6817	6862
25°	6832	6782	6832
30°	6752	6685	6807
35°	6681	6666	6805
40°	6612	6561	6797
45°	6476	6502	6860
50°	6291	6364	5548
55°	6091	6197	3969
60°	5719	4569	3584
65°	5145	3346	3115
70°	4288	2620	2342
75°	3143	1934	1563
80°	2005	1350	977
85°	995	803	730



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	3.5
10°-20°	657.4	10.1
20°-30°	1006.5	15.5
30°-40°	1238.9	19.1
40°-50°	1313.1	20.3
50°-60°	1054.5	16.3
60°-70°	655.4	10.1
70°-80°	269.7	4.2
80°-90°	56.5	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°	1891.9	29.2
0°-40°	3130.8	48.3
0°-60°	5498.4	84.9
0°-90°	6480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2393	2393	2393	2393	2393	
5°	2382	2388	2394	2406	2410	227
15°	2298	2330	2323	2338	2338	650
25°	2134	2156	2186	2211	2216	984
35°	1897	1944	1984	2033	2044	1188
45°	1599	1634	1715	1797	1833	1230
55°	1232	1287	1375	981	896	1097
65°	780	836	580	550	553	769
75°	303	279	231	206	194	332
85°	38	47	50	50	49	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2392.8	2392.8	2392.8	2392.8	2392.8
2.5°	2388.9	2391.8	2387.0	2397.7	2400.6
5°	2382.1	2387.9	2393.8	2406.5	2410.4
7.5°	2372.4	2385.0	2391.8	2399.6	2399.6
10°	2355.8	2375.3	2375.3	2378.2	2380.2
12.5°	2332.4	2358.7	2353.8	2355.8	2358.7
15°	2298.3	2330.5	2322.7	2338.3	2338.3
17.5°	2266.2	2293.4	2294.4	2313.9	2320.7
20°	2233.0	2255.4	2257.4	2285.6	2283.7
22.5°	2179.5	2213.6	2223.3	2238.9	2246.7
25°	2133.7	2156.1	2186.3	2210.6	2216.5
27.5°	2089.8	2108.3	2132.7	2174.6	2179.5
30°	2020.6	2059.6	2080.1	2135.6	2134.6
32.5°	1966.1	2001.2	2030.4	2084.0	2091.8
35°	1896.9	1943.7	1983.6	2033.3	2044.0
37.5°	1829.7	1872.6	1922.2	1971.0	1985.6
40°	1761.5	1800.5	1848.2	1906.7	1935.9
42.5°	1673.8	1721.5	1783.9	1851.1	1884.2
45°	1598.8	1633.9	1714.7	1796.6	1832.6
47.5°	1508.2	1554.0	1625.1	1729.3	1696.2
50°	1418.5	1471.2	1551.0	1566.6	1372.8
52.5°	1329.9	1382.5	1478.9	1239.3	1073.7
55°	1232.5	1287.0	1374.7	981.1	896.3
57.5°	1126.3	1177.9	1170.1	814.5	785.3
60°	1016.2	1066.8	906.1	713.2	725.8
62.5°	902.2	956.7	711.2	651.8	632.3
65°	780.4	835.9	579.7	550.5	553.4
67.5°	653.7	700.5	508.6	469.6	459.9
70°	533.9	547.5	384.8	374.1	354.6
72.5°	414.1	396.5	305.9	282.5	262.1
75°	303.0	278.6	230.9	206.5	193.9
77.5°	210.4	192.9	166.6	175.4	129.6
80°	135.4	125.7	122.8	97.4	93.5
82.5°	79.9	78.9	76.0	70.1	68.2
85°	38.0	46.8	49.7	49.7	48.7
87.5°	13.6	23.4	31.2	33.1	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)