

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-LD5-11-W-FL-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 (P34181)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-11-W-FL-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

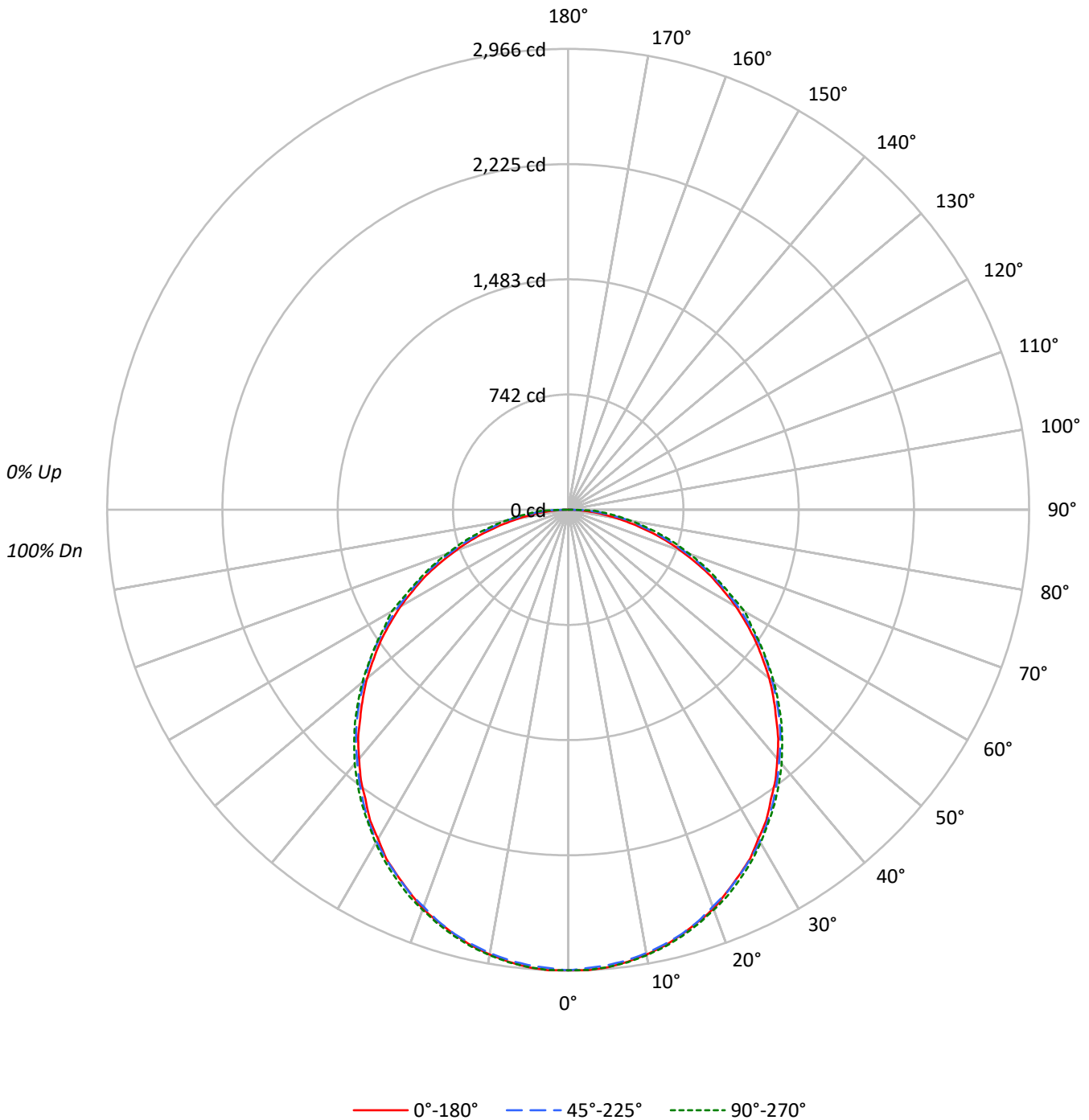
Lumens per Lamp: N/A
Luminaire Lumens: 8395.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 83.9
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°	8704	8704	8704
5°	8691	8599	8623
10°	8628	8497	8516
15°	8542	8377	8387
20°	8463	8214	8232
25°	8319	8070	8079
30°	8175	7926	7898
35°	8011	7726	7705
40°	7853	7497	7500
45°	7661	7294	7262
50°	7491	7031	6987
55°	7273	6765	6686
60°	7007	6410	6479
65°	6676	6003	5948
70°	6179	5477	5472
75°	5568	4892	4939
80°	4772	4346	4272
85°	3783	3220	3556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.2	3.3
10°-20°	798.8	9.5
20°-30°	1202.0	14.3
30°-40°	1438.0	17.1
40°-50°	1481.9	17.7
50°-60°	1336.0	15.9
60°-70°	1026.1	12.2
70°-80°	617.8	7.4
80°-90°	214.2	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°	2281.0	27.2
0°-40°	3719.0	44.3
0°-60°	6536.9	77.9
0°-90°	8395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8395.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2965	2965	2965	2965	2965	
5°	2956	2953	2942	2953	2954	281
15°	2830	2833	2826	2839	2840	799
25°	2598	2600	2602	2617	2621	1198
35°	2275	2297	2299	2313	2314	1426
45°	1891	1908	1923	1939	1940	1462
55°	1472	1484	1501	1510	1510	1314
65°	1013	1016	1040	1052	1057	998
75°	537	552	584	605	613	570
85°	144	167	199	226	237	163
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2964.9	2964.9	2964.9	2964.9	2964.9
2.5°	2966.4	2964.9	2952.7	2961.8	2964.9
5°	2955.7	2952.7	2942.1	2952.7	2954.2
7.5°	2934.5	2932.9	2923.8	2934.5	2937.5
10°	2907.1	2907.1	2898.0	2908.6	2911.7
12.5°	2873.6	2872.1	2864.5	2876.7	2879.7
15°	2829.6	2832.6	2826.5	2838.7	2840.2
17.5°	2780.9	2782.4	2777.9	2788.5	2793.1
20°	2733.8	2726.2	2720.1	2738.3	2739.8
22.5°	2665.3	2668.4	2666.9	2683.6	2686.6
25°	2598.4	2600.0	2601.5	2616.7	2621.2
27.5°	2533.1	2531.5	2536.1	2548.3	2552.8
30°	2446.4	2458.6	2466.2	2475.3	2476.8
32.5°	2371.9	2376.5	2385.6	2391.7	2393.2
35°	2274.6	2297.4	2298.9	2312.6	2314.1
37.5°	2191.0	2198.6	2206.2	2222.9	2225.9
40°	2092.1	2102.8	2111.9	2127.1	2136.2
42.5°	2000.9	2013.1	2022.2	2035.9	2037.4
45°	1891.4	1908.2	1923.4	1938.6	1940.1
47.5°	1791.1	1807.8	1820.0	1832.1	1833.7
50°	1689.2	1702.9	1713.5	1728.7	1728.7
52.5°	1576.7	1593.4	1610.2	1616.2	1616.2
55°	1471.8	1484.0	1500.7	1509.8	1509.8
57.5°	1357.8	1363.8	1382.1	1398.8	1398.8
60°	1245.2	1252.8	1271.1	1283.3	1312.1
62.5°	1125.1	1137.3	1149.5	1189.0	1172.3
65°	1012.6	1015.7	1040.0	1052.1	1056.7
67.5°	887.9	898.6	922.9	936.6	945.7
70°	769.3	783.0	804.3	821.0	828.6
72.5°	656.8	662.9	690.3	713.1	723.7
75°	536.7	551.9	583.9	605.1	612.7
77.5°	422.7	447.0	477.4	551.9	509.3
80°	322.3	340.6	395.3	398.4	409.0
82.5°	225.0	246.3	282.8	307.1	319.3
85°	144.4	167.2	199.2	226.5	237.2
87.5°	66.9	91.2	132.3	162.7	171.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)