

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-LD5-16-W-FL-UNV-L840-CD2-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-LD5-16-W-FL-UNV-L840-CD2-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

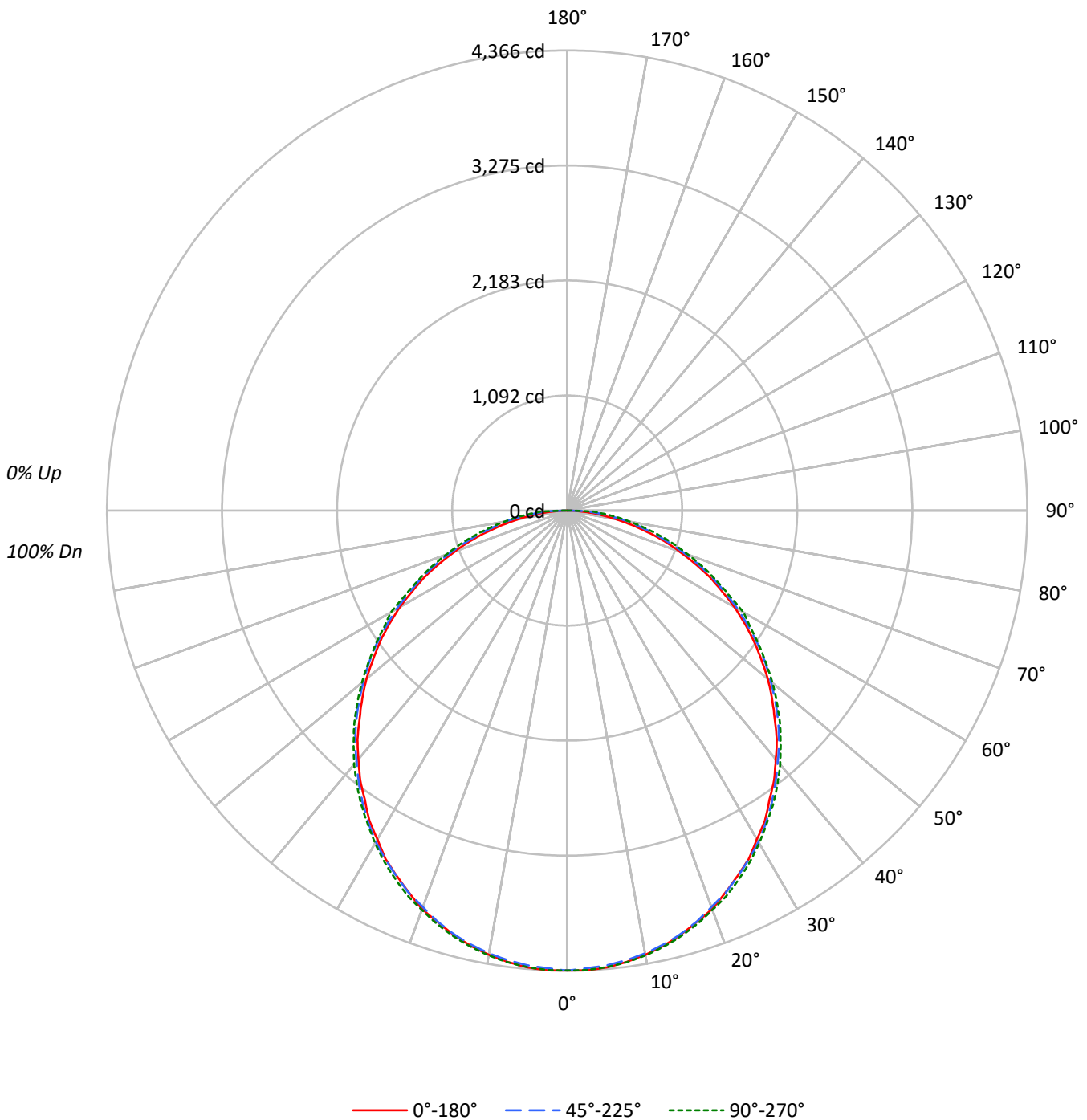
Lumens per Lamp: N/A
Luminaire Lumens: 12356.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 126.6
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12810	12810	12810
5°	12792	12655	12692
10°	12698	12505	12534
15°	12573	12330	12344
20°	12456	12090	12117
25°	12245	11877	11891
30°	12032	11666	11625
35°	11791	11371	11340
40°	11558	11034	11039
45°	11276	10735	10689
50°	11026	10349	10283
55°	10705	9956	9840
60°	10314	9434	9537
65°	9826	8836	8755
70°	9094	8061	8054
75°	8196	7199	7269
80°	7024	6396	6287
85°	5569	4739	5233



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.4	3.3
10°-20°	1175.7	9.5
20°-30°	1769.1	14.3
30°-40°	2116.5	17.1
40°-50°	2181.1	17.7
50°-60°	1966.4	15.9
60°-70°	1510.3	12.2
70°-80°	909.3	7.4
80°-90°	315.3	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°	3357.2	27.2
0°-40°	5473.7	44.3
0°-60°	9621.1	77.9
0°-90°	12356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4364	4364	4364	4364	4364	
5°	4350	4346	4330	4346	4348	413
15°	4165	4169	4160	4178	4180	1175
25°	3824	3827	3829	3851	3858	1763
35°	3348	3381	3384	3404	3406	2099
45°	2784	2808	2831	2853	2856	2152
55°	2166	2184	2209	2222	2222	1933
65°	1490	1495	1531	1549	1555	1469
75°	790	812	859	891	902	839
85°	213	246	293	333	349	239
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4363.8	4363.8	4363.8	4363.8	4363.8
2.5°	4366.0	4363.8	4345.9	4359.3	4363.8
5°	4350.4	4345.9	4330.2	4345.9	4348.1
7.5°	4319.0	4316.8	4303.4	4319.0	4323.5
10°	4278.7	4278.7	4265.3	4281.0	4285.5
12.5°	4229.5	4227.3	4216.1	4234.0	4238.5
15°	4164.6	4169.1	4160.1	4178.0	4180.3
17.5°	4093.0	4095.2	4088.5	4104.2	4110.9
20°	4023.6	4012.4	4003.5	4030.3	4032.6
22.5°	3922.9	3927.4	3925.2	3949.8	3954.3
25°	3824.5	3826.7	3828.9	3851.3	3858.0
27.5°	3728.2	3726.0	3732.7	3750.6	3757.3
30°	3600.7	3618.6	3629.8	3643.2	3645.4
32.5°	3491.0	3497.7	3511.2	3520.1	3522.4
35°	3347.8	3381.4	3383.6	3403.7	3406.0
37.5°	3224.7	3235.9	3247.1	3271.7	3276.2
40°	3079.3	3094.9	3108.4	3130.7	3144.2
42.5°	2945.0	2962.9	2976.3	2996.5	2998.7
45°	2783.9	2808.5	2830.9	2853.2	2855.5
47.5°	2636.2	2660.8	2678.7	2696.6	2698.8
50°	2486.2	2506.4	2522.0	2544.4	2544.4
52.5°	2320.6	2345.3	2369.9	2378.8	2378.8
55°	2166.2	2184.1	2208.7	2222.2	2222.2
57.5°	1998.4	2007.3	2034.2	2058.8	2058.8
60°	1832.8	1844.0	1870.8	1888.7	1931.3
62.5°	1656.0	1673.9	1691.8	1750.0	1725.4
65°	1490.4	1494.9	1530.7	1548.6	1555.3
67.5°	1306.9	1322.6	1358.4	1378.5	1391.9
70°	1132.3	1152.5	1183.8	1208.4	1219.6
72.5°	966.7	975.7	1016.0	1049.5	1065.2
75°	790.0	812.3	859.3	890.7	901.8
77.5°	622.1	657.9	702.7	812.3	749.7
80°	474.4	501.3	581.8	586.3	602.0
82.5°	331.2	362.5	416.2	452.0	469.9
85°	212.6	246.2	293.2	333.4	349.1
87.5°	98.5	134.3	194.7	239.4	252.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)