

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-FLWG-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 (P34182)
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-FLWG-UNV-L840-CD2-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

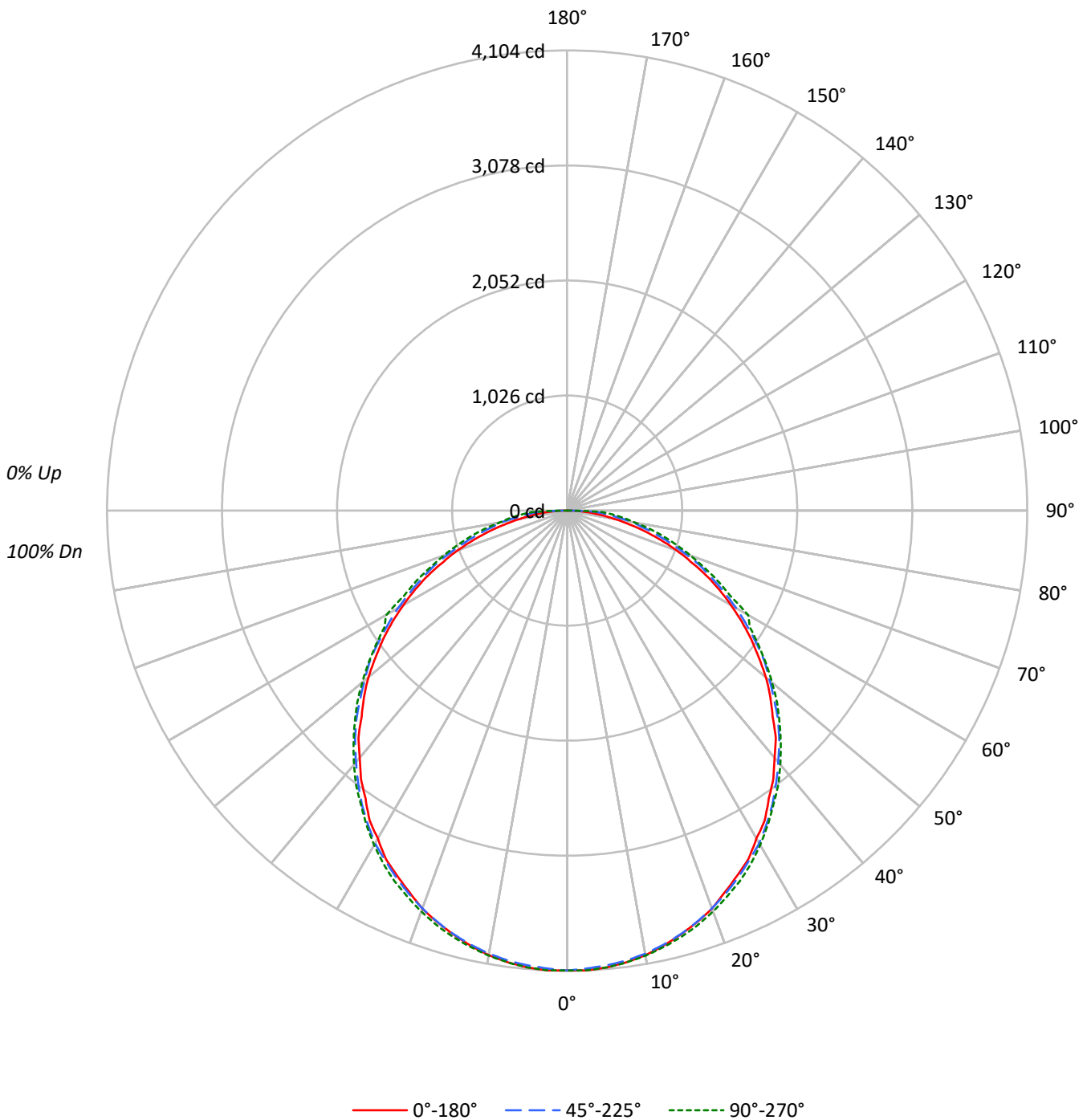
Lumens per Lamp: N/A
Luminaire Lumens: 11666.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
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	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	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°	12043	12043	12043
5°	12023	11898	11935
10°	11949	11765	11788
15°	11817	11595	11625
20°	11695	11401	11432
25°	11494	11198	11237
30°	11285	11012	10984
35°	11043	10732	10670
40°	10803	10399	10379
45°	10497	10099	10028
50°	10263	9679	9642
55°	9898	9281	9207
60°	9496	8781	9206
65°	9030	8217	8340
70°	8358	7620	7715
75°	7522	6882	7162
80°	6362	6471	6381
85°	5158	5499	6073



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.9	3.3
10°-20°	1106.4	9.5
20°-30°	1666.1	14.3
30°-40°	1992.5	17.1
40°-50°	2046.3	17.5
50°-60°	1837.6	15.8
60°-70°	1414.0	12.1
70°-80°	871.5	7.5
80°-90°	343.7	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°	3160.3	27.1
0°-40°	5152.9	44.2
0°-60°	9036.8	77.5
0°-90°	11666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4102	4102	4102	4102	4102	
5°	4089	4087	4071	4087	4089	388
15°	3914	3921	3912	3928	3937	1105
25°	3590	3594	3610	3637	3646	1655
35°	3136	3180	3194	3205	3205	1966
45°	2592	2632	2663	2674	2679	2007
55°	2003	2030	2059	2081	2079	1791
65°	1370	1383	1423	1473	1482	1351
75°	725	763	821	875	888	766
85°	197	262	340	389	405	225
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4102.3	4102.3	4102.3	4102.3	4102.3
2.5°	4104.5	4102.3	4086.6	4097.8	4102.3
5°	4088.9	4086.6	4070.9	4086.6	4088.9
7.5°	4062.0	4062.0	4046.3	4062.0	4064.2
10°	4026.2	4026.2	4012.8	4026.2	4030.7
12.5°	3974.7	3979.2	3965.8	3981.4	3985.9
15°	3914.3	3921.0	3912.0	3927.7	3936.7
17.5°	3849.4	3851.6	3847.1	3867.3	3876.2
20°	3777.8	3775.5	3775.5	3802.4	3804.6
22.5°	3681.5	3692.7	3695.0	3724.1	3726.3
25°	3589.8	3594.3	3609.9	3636.8	3645.7
27.5°	3502.5	3500.3	3515.9	3540.5	3549.5
30°	3377.2	3399.5	3426.4	3435.4	3444.3
32.5°	3278.7	3285.4	3312.3	3321.2	3327.9
35°	3135.5	3180.2	3193.6	3204.8	3204.8
37.5°	3019.1	3043.7	3061.6	3081.7	3090.7
40°	2878.1	2909.4	2929.6	2949.7	2956.4
42.5°	2755.0	2775.1	2799.8	2815.4	2819.9
45°	2591.6	2631.9	2663.2	2674.4	2678.9
47.5°	2457.3	2502.1	2506.6	2533.4	2540.1
50°	2314.1	2347.7	2358.9	2390.2	2385.7
52.5°	2155.2	2195.5	2222.3	2231.3	2233.5
55°	2003.0	2029.9	2059.0	2081.4	2079.1
57.5°	1848.6	1871.0	1895.6	1929.2	1931.4
60°	1687.5	1714.3	1741.2	1774.7	1864.3
62.5°	1530.8	1546.5	1577.8	1642.7	1636.0
65°	1369.7	1383.1	1423.4	1472.6	1481.6
67.5°	1195.1	1222.0	1282.4	1313.7	1318.2
70°	1040.7	1065.3	1119.0	1159.3	1168.2
72.5°	877.3	906.4	964.6	1016.1	1029.5
75°	725.1	763.2	821.4	875.1	888.5
77.5°	568.5	617.7	687.1	816.9	754.2
80°	429.7	485.6	588.6	604.3	611.0
82.5°	306.6	367.0	440.9	494.6	512.5
85°	196.9	261.8	340.2	389.4	405.1
87.5°	109.7	172.3	255.1	304.4	317.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)