

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-CL-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 (P34177)
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-CL-UNV-L840-CD2-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

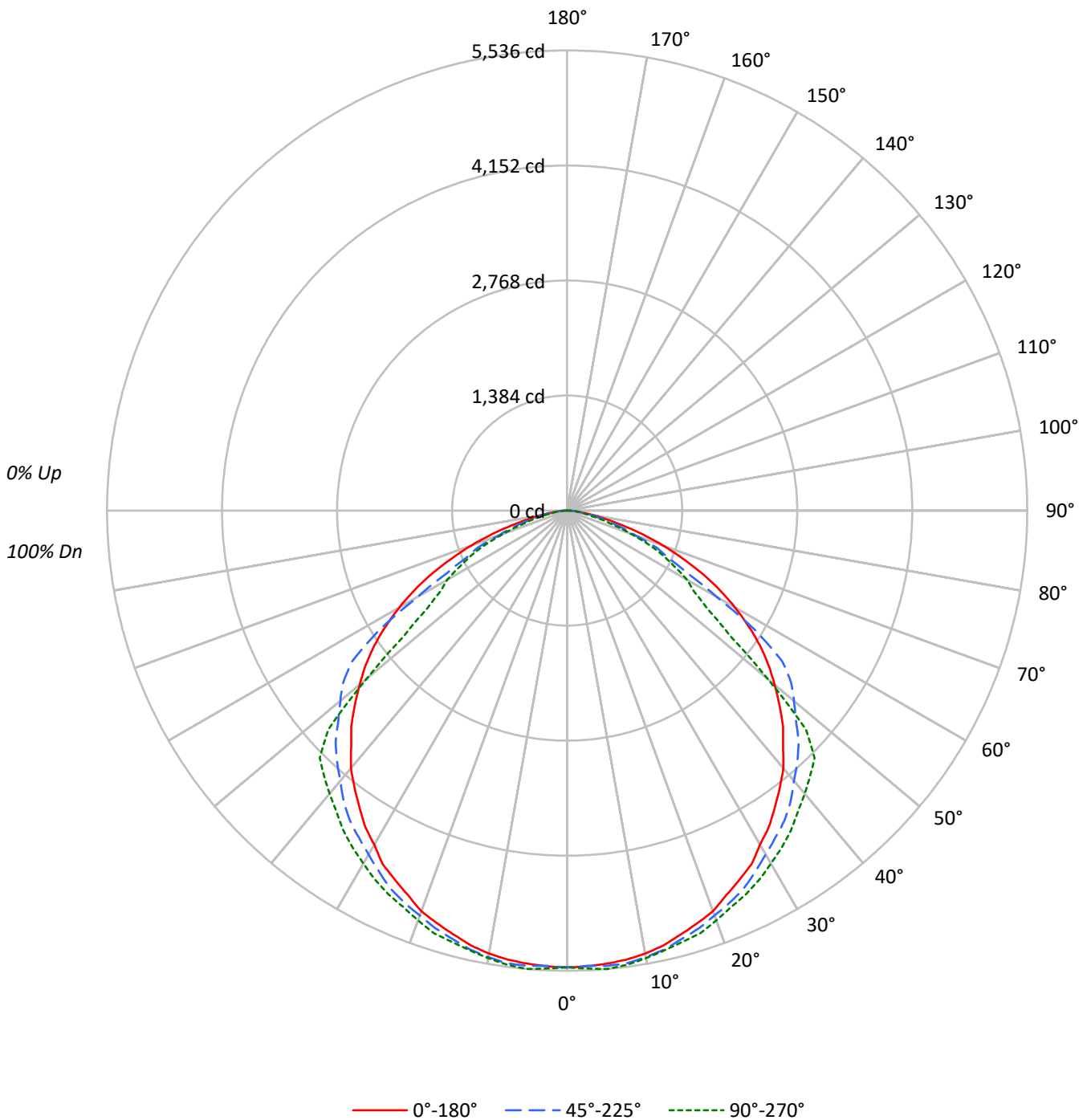
Lumens per Lamp: N/A
Luminaire Lumens: 14884.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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	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°	16134	16134	16134
5°	16088	16069	16161
10°	16059	15996	15989
15°	15937	15812	15859
20°	15879	15658	15761
25°	15691	15577	15692
30°	15509	15355	15636
35°	15346	15312	15632
40°	15186	15069	15611
45°	14874	14935	15756
50°	14450	14619	12743
55°	13989	14233	9117
60°	13135	10496	8233
65°	11818	7686	7155
70°	9849	6019	5379
75°	7221	4444	3589
80°	4606	3100	2243
85°	2287	1844	1677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.7	3.5
10°-20°	1510.0	10.1
20°-30°	2311.8	15.5
30°-40°	2845.6	19.1
40°-50°	3016.0	20.3
50°-60°	2422.2	16.3
60°-70°	1505.4	10.1
70°-80°	619.5	4.2
80°-90°	129.8	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°	4345.5	29.2
0°-40°	7191.1	48.3
0°-60°	12629.3	84.9
0°-90°	14884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5496	5496	5496	5496	5496	
5°	5472	5485	5498	5527	5536	520
15°	5279	5353	5335	5371	5371	1492
25°	4901	4952	5022	5078	5091	2261
35°	4357	4464	4556	4670	4695	2728
45°	3672	3753	3939	4126	4209	2825
55°	2831	2956	3158	2254	2059	2519
65°	1792	1920	1332	1264	1271	1766
75°	696	640	530	474	445	763
85°	87	107	114	114	112	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5496.1	5496.1	5496.1	5496.1	5496.1
2.5°	5487.1	5493.9	5482.7	5507.3	5514.0
5°	5471.5	5484.9	5498.3	5527.4	5536.4
7.5°	5449.1	5478.2	5493.9	5511.8	5511.8
10°	5411.1	5455.8	5455.8	5462.5	5467.0
12.5°	5357.3	5417.8	5406.6	5411.1	5417.8
15°	5279.0	5352.9	5335.0	5370.8	5370.8
17.5°	5205.2	5267.8	5270.1	5314.8	5330.5
20°	5129.1	5180.6	5185.0	5249.9	5245.5
22.5°	5006.0	5084.3	5106.7	5142.5	5160.4
25°	4900.8	4952.3	5021.7	5077.6	5091.0
27.5°	4800.1	4842.7	4898.6	4994.8	5006.0
30°	4641.2	4730.8	4777.8	4905.3	4903.1
32.5°	4515.9	4596.5	4663.6	4786.7	4804.6
35°	4357.0	4464.5	4556.2	4670.3	4695.0
37.5°	4202.6	4301.1	4415.2	4527.1	4560.7
40°	4046.0	4135.5	4245.2	4379.4	4446.6
42.5°	3844.6	3954.2	4097.5	4251.9	4328.0
45°	3672.3	3752.8	3938.6	4126.5	4209.3
47.5°	3464.2	3569.3	3732.7	3972.1	3896.1
50°	3258.3	3379.1	3562.6	3598.4	3153.1
52.5°	3054.6	3175.5	3397.0	2846.5	2466.1
55°	2830.8	2956.2	3157.6	2253.5	2058.8
57.5°	2586.9	2705.5	2687.6	1870.8	1803.7
60°	2334.0	2450.4	2081.2	1638.1	1667.2
62.5°	2072.2	2197.5	1633.6	1497.1	1452.3
65°	1792.5	1920.1	1331.5	1264.4	1271.1
67.5°	1501.6	1609.0	1168.1	1078.6	1056.3
70°	1226.3	1257.7	883.9	859.3	814.6
72.5°	951.1	910.8	702.7	649.0	602.0
75°	696.0	640.0	530.4	474.4	445.3
77.5°	483.4	443.1	382.7	402.8	297.6
80°	311.1	288.7	282.0	223.8	214.8
82.5°	183.5	181.3	174.6	161.1	156.6
85°	87.3	107.4	114.1	114.1	111.9
87.5°	31.3	53.7	71.6	76.1	80.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)