

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: **8ILED-LD5-18-W-WG-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 (P34174)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-18-W-WG-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

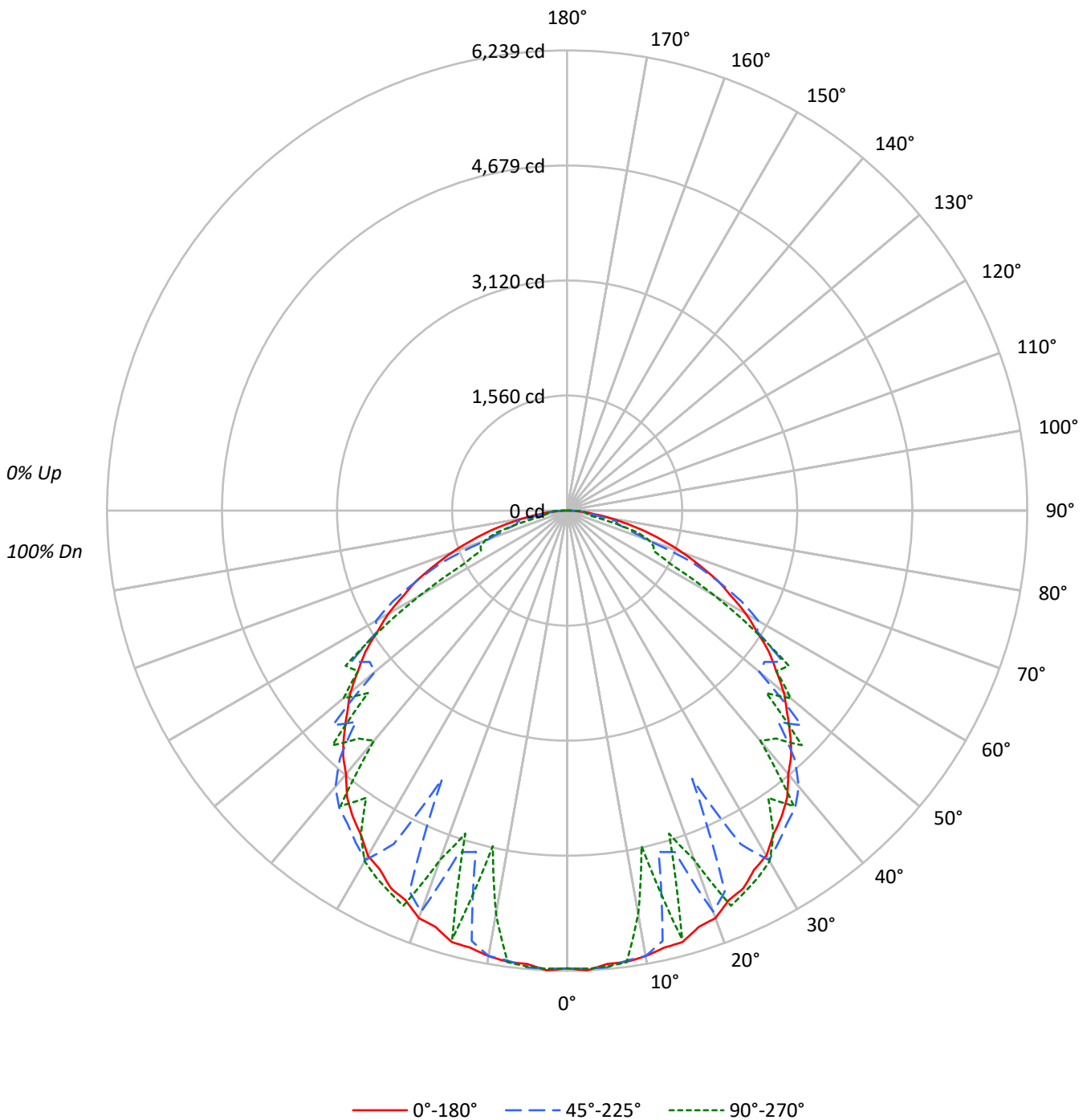
Lumens per Lamp: N/A
Luminaire Lumens: 17066.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 131.3
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	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9110	9110	9110
5°	9083	9091	9055
10°	9123	9003	8119
15°	9170	7116	8884
20°	9140	8763	7571
25°	9100	6246	8790
30°	9087	8836	8753
35°	9000	8769	7912
40°	8843	8730	7147
45°	8765	7739	8421
50°	8628	7041	8001
55°	8403	8128	8122
60°	8044	7649	5714
65°	7626	6538	3628
70°	6877	3913	3903
75°	5987	3024	2678
80°	4734	2517	1546
85°	3594	1965	1791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.9	3.4
10°-20°	1569.7	9.2
20°-30°	2434.0	14.3
30°-40°	3120.5	18.3
40°-50°	3195.7	18.7
50°-60°	3030.3	17.8
60°-70°	1941.0	11.4
70°-80°	943.2	5.5
80°-90°	243.6	1.4
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°	4591.7	26.9
0°-40°	7712.2	45.2
0°-60°	13938.3	81.7
0°-90°	17066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17066.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6206	6206	6206	6206	6206	
5°	6172	6189	6216	6231	6204	589
15°	6055	6055	4790	5634	6017	1700
25°	5652	4882	4012	5739	5704	2597
35°	5067	5099	5189	5054	4753	3165
45°	4275	4283	4049	4076	4499	3295
55°	3342	3447	3566	3439	3668	2969
65°	2255	2202	2230	1448	1289	2209
75°	1105	1234	704	854	664	1169
85°	244	214	231	244	239	276
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6206.5	6206.5	6206.5	6206.5	6206.5
2.5°	6238.8	6243.8	6216.4	6206.5	6218.9
5°	6171.6	6189.0	6216.4	6231.3	6204.0
7.5°	6169.1	6176.6	6154.2	6236.3	6176.6
10°	6134.3	6176.6	6131.8	5915.3	5552.0
12.5°	6069.6	6077.0	5975.0	4305.2	4658.6
15°	6054.7	6054.7	4790.5	5634.1	6017.3
17.5°	5920.3	5952.6	4855.2	5917.8	4591.4
20°	5878.0	5858.1	5785.9	4190.7	5039.3
22.5°	5718.7	5581.8	5586.8	5823.2	5800.8
25°	5651.5	4882.5	4011.5	5738.6	5703.8
27.5°	5492.2	4093.7	5096.6	5614.2	5606.7
30°	5400.2	4257.9	5472.3	5512.1	5489.7
32.5°	5206.1	4887.5	5335.5	5420.1	5203.6
35°	5066.7	5099.0	5188.6	5054.3	4753.1
37.5°	4900.0	4678.5	5076.6	4608.8	5051.8
40°	4663.5	3645.7	4885.0	4944.8	4071.3
42.5°	4496.8	3568.6	4561.5	3837.3	4193.2
45°	4275.3	4282.8	4048.9	4076.3	4499.3
47.5°	4043.9	4138.5	4307.7	4330.1	3663.2
50°	3834.9	3926.9	3399.4	3670.6	3959.3
52.5°	3573.6	3703.0	3372.0	3790.1	3573.6
55°	3342.1	3446.6	3566.1	3439.2	3668.1
57.5°	3046.0	3212.7	3053.5	3377.0	2981.3
60°	2799.6	2797.1	2993.7	3008.7	2314.4
62.5°	2503.5	2483.6	2662.8	2018.2	1602.6
65°	2254.6	2202.4	2229.7	1448.3	1289.1
67.5°	1943.6	1724.6	1836.6	1209.4	1269.2
70°	1657.4	1647.4	1127.3	838.6	1182.1
72.5°	1373.7	1495.6	888.4	1047.7	1022.8
75°	1104.9	1234.3	704.3	853.6	664.4
77.5°	828.7	895.9	694.3	522.6	323.5
80°	599.7	423.1	443.0	296.1	296.1
82.5°	388.2	348.4	258.8	276.2	261.3
85°	243.9	214.0	231.4	243.9	238.9
87.5°	84.6	146.8	184.2	179.2	164.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)