

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-L850-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-L850-CD2-U
Description: Metalux 8' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

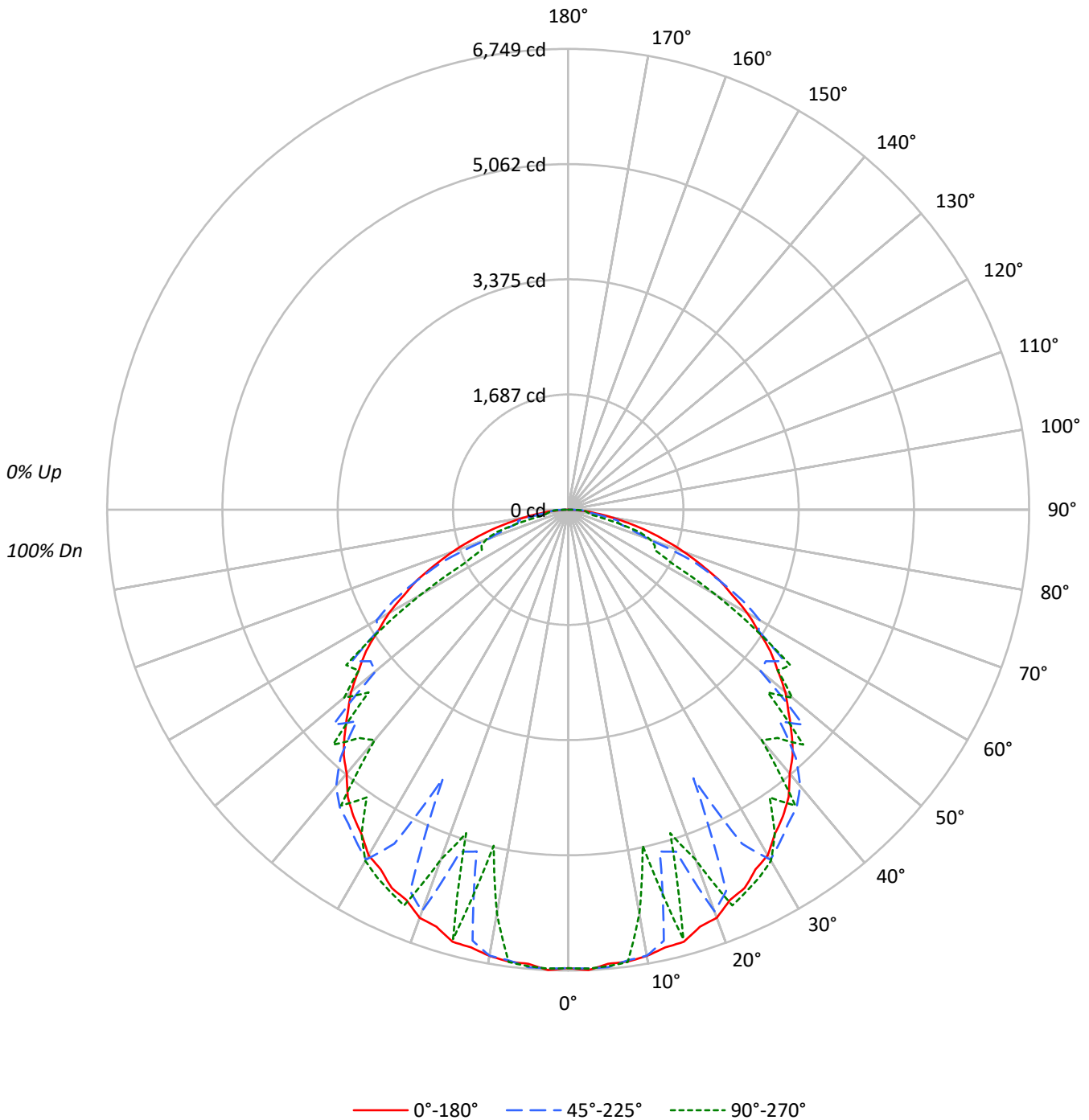
Lumens per Lamp: N/A
Luminaire Lumens: 18461.0 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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°	9855	9855	9855
5°	9826	9834	9795
10°	9868	9739	8782
15°	9919	7697	9610
20°	9887	9480	8190
25°	9844	6757	9509
30°	9830	9559	9469
35°	9736	9486	8559
40°	9566	9444	7731
45°	9482	8372	9109
50°	9334	7616	8655
55°	9089	8792	8786
60°	8702	8274	6181
65°	8249	7073	3925
70°	7439	4234	4222
75°	6476	3271	2897
80°	5121	2723	1673
85°	3887	2127	1937



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.0	3.4
10°-20°	1698.0	9.2
20°-30°	2633.0	14.3
30°-40°	3375.6	18.3
40°-50°	3456.9	18.7
50°-60°	3278.0	17.8
60°-70°	2099.6	11.4
70°-80°	1020.3	5.5
80°-90°	263.5	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°	4967.0	26.9
0°-40°	8342.6	45.2
0°-60°	15077.6	81.7
0°-90°	18461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6714	6714	6714	6714	6714	
5°	6676	6695	6724	6741	6711	637
15°	6550	6550	5182	6095	6509	1839
25°	6114	5282	4340	6208	6170	2810
35°	5481	5516	5613	5467	5142	3423
45°	4625	4633	4380	4409	4867	3564
55°	3615	3728	3858	3720	3968	3212
65°	2439	2382	2412	1567	1394	2389
75°	1195	1335	762	923	719	1265
85°	264	232	250	264	258	299
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6713.8	6713.8	6713.8	6713.8	6713.8
2.5°	6748.8	6754.2	6724.5	6713.8	6727.2
5°	6676.1	6694.9	6724.5	6740.7	6711.1
7.5°	6673.4	6681.5	6657.2	6746.1	6681.5
10°	6635.7	6681.5	6633.0	6398.8	6005.8
12.5°	6565.7	6573.8	6463.4	4657.1	5039.4
15°	6549.6	6549.6	5182.0	6094.6	6509.2
17.5°	6404.2	6439.2	5252.0	6401.5	4966.7
20°	6358.4	6336.9	6258.8	4533.3	5451.2
22.5°	6186.2	6038.1	6043.5	6299.2	6275.0
25°	6113.5	5281.6	4339.5	6207.7	6170.0
27.5°	5941.2	4428.3	5513.2	6073.1	6065.0
30°	5841.6	4606.0	5919.6	5962.7	5938.5
32.5°	5631.6	5287.0	5771.6	5863.1	5628.9
35°	5480.9	5515.8	5612.8	5467.4	5141.7
37.5°	5300.5	5060.9	5491.6	4985.5	5464.7
40°	5044.8	3943.7	5284.3	5348.9	4404.1
42.5°	4864.4	3860.3	4934.4	4151.0	4536.0
45°	4624.8	4632.9	4379.8	4409.4	4867.1
47.5°	4374.5	4476.7	4659.8	4684.0	3962.6
50°	4148.3	4247.9	3677.2	3970.7	4282.9
52.5°	3865.7	4005.7	3647.6	4099.9	3865.7
55°	3615.3	3728.4	3857.6	3720.3	3968.0
57.5°	3295.0	3475.3	3303.0	3653.0	3225.0
60°	3028.5	3025.8	3238.4	3254.6	2503.5
62.5°	2708.1	2686.6	2880.4	2183.2	1733.6
65°	2438.9	2382.4	2412.0	1566.7	1394.4
67.5°	2102.4	1865.5	1986.7	1308.3	1372.9
70°	1792.9	1782.1	1219.5	907.2	1278.7
72.5°	1486.0	1617.9	961.0	1133.3	1106.4
75°	1195.2	1335.2	761.8	923.3	718.8
77.5°	896.4	969.1	751.1	565.3	350.0
80°	648.8	457.6	479.2	320.3	320.3
82.5°	419.9	376.9	280.0	298.8	282.7
85°	263.8	231.5	250.4	263.8	258.4
87.5°	91.5	158.8	199.2	193.8	177.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)