

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-LD5-14-W-TWBWG-UNV-L835-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 (P34176)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-14-W-TWBWG-UNV-L835-CD2-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

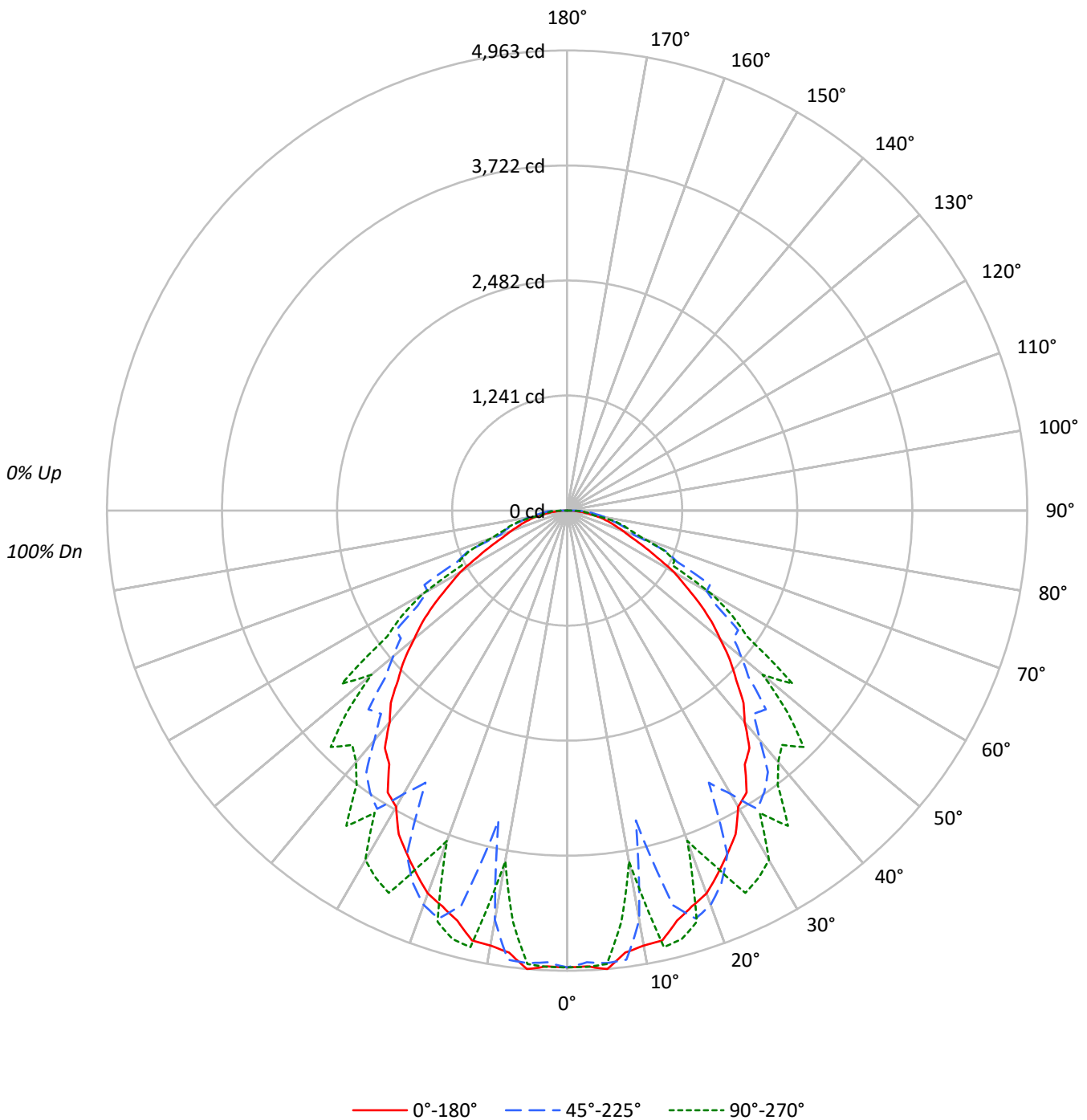
Lumens per Lamp: N/A
Luminaire Lumens: 11971.0 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 100.8
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	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	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°	7232	7232	7232
5°	7305	7163	7166
10°	7083	6583	5615
15°	6935	6543	7063
20°	6832	6855	5691
25°	6580	6366	7013
30°	6207	5698	6939
35°	5939	6264	6911
40°	5647	5780	6214
45°	5283	5795	6751
50°	4848	5077	5563
55°	4366	5129	5245
60°	3826	4437	4434
65°	3069	3832	3597
70°	2640	2666	2857
75°	2505	2559	2541
80°	2307	2410	1507
85°	2140	2174	1432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.3	3.8
10°-20°	1260.6	10.5
20°-30°	1822.5	15.2
30°-40°	2282.5	19.1
40°-50°	2221.9	18.6
50°-60°	1901.9	15.9
60°-70°	1179.8	9.9
70°-80°	613.9	5.1
80°-90°	238.5	2.0
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°	3532.5	29.5
0°-40°	5815.0	48.6
0°-60°	9938.8	83.0
0°-90°	11971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4927	4927	4927	4927	4927	
5°	4963	4948	4898	4879	4910	463
15°	4579	4596	4405	4808	4784	1296
25°	4086	3387	4088	4203	4550	1878
35°	3343	3484	3706	3676	4151	2113
45°	2577	2314	3032	3100	3607	1993
55°	1736	1901	2250	2686	2369	1553
65°	907	1018	1307	1106	1278	921
75°	462	537	596	640	630	489
85°	145	193	256	294	191	156
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4926.9	4926.9	4926.9	4926.9	4926.9
2.5°	4921.1	4900.1	4877.2	4917.3	4924.9
5°	4963.2	4947.9	4898.2	4879.1	4909.7
7.5°	4808.4	4840.9	4886.7	4638.4	4477.9
10°	4762.6	4745.4	4483.7	3452.0	3839.9
12.5°	4747.3	4726.3	3423.4	4798.9	4821.8
15°	4579.2	4596.4	4405.3	4808.4	4783.6
17.5°	4476.0	4239.1	4613.6	4693.8	4649.9
20°	4393.9	3694.7	4525.7	4311.7	3788.3
22.5°	4242.9	3150.2	4349.9	3459.7	4132.1
25°	4086.3	3387.1	4088.2	4202.8	4550.5
27.5°	3935.4	3837.9	3306.9	4386.2	4468.4
30°	3688.9	3805.5	3528.5	4294.5	4351.8
32.5°	3603.0	3633.5	3815.0	4055.7	3864.7
35°	3343.2	3484.5	3706.1	3675.6	4151.2
37.5°	3228.5	3268.7	3557.1	3870.4	3729.1
40°	2978.3	3039.4	3234.3	3419.6	3539.9
42.5°	2815.9	2611.5	2972.5	3314.5	3429.1
45°	2577.1	2313.5	3031.8	3100.5	3606.8
47.5°	2382.2	2298.2	2653.5	3226.6	3226.6
50°	2154.9	2265.7	2451.0	2882.8	2752.9
52.5°	1960.0	2111.0	2261.9	2506.4	3066.2
55°	1736.5	1900.8	2250.4	2686.0	2368.9
57.5°	1516.8	1656.3	1910.4	2057.5	2112.9
60°	1331.5	1467.2	1736.5	1849.2	1795.8
62.5°	1092.7	1264.7	1736.5	1457.6	1278.0
65°	907.4	1018.2	1306.7	1106.1	1278.0
67.5°	745.0	859.7	1161.5	1067.9	1138.6
70°	636.2	718.3	768.0	955.2	865.4
72.5°	544.5	603.7	703.0	722.1	718.3
75°	462.3	536.8	596.0	640.0	630.4
77.5°	384.0	489.1	491.0	588.4	512.0
80°	292.3	334.3	424.1	384.0	288.5
82.5°	214.0	261.7	322.9	332.4	254.1
85°	145.2	192.9	256.0	294.2	191.0
87.5°	66.9	131.8	208.2	263.6	173.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)