

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-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 (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-L840-CD2-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

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

Summary

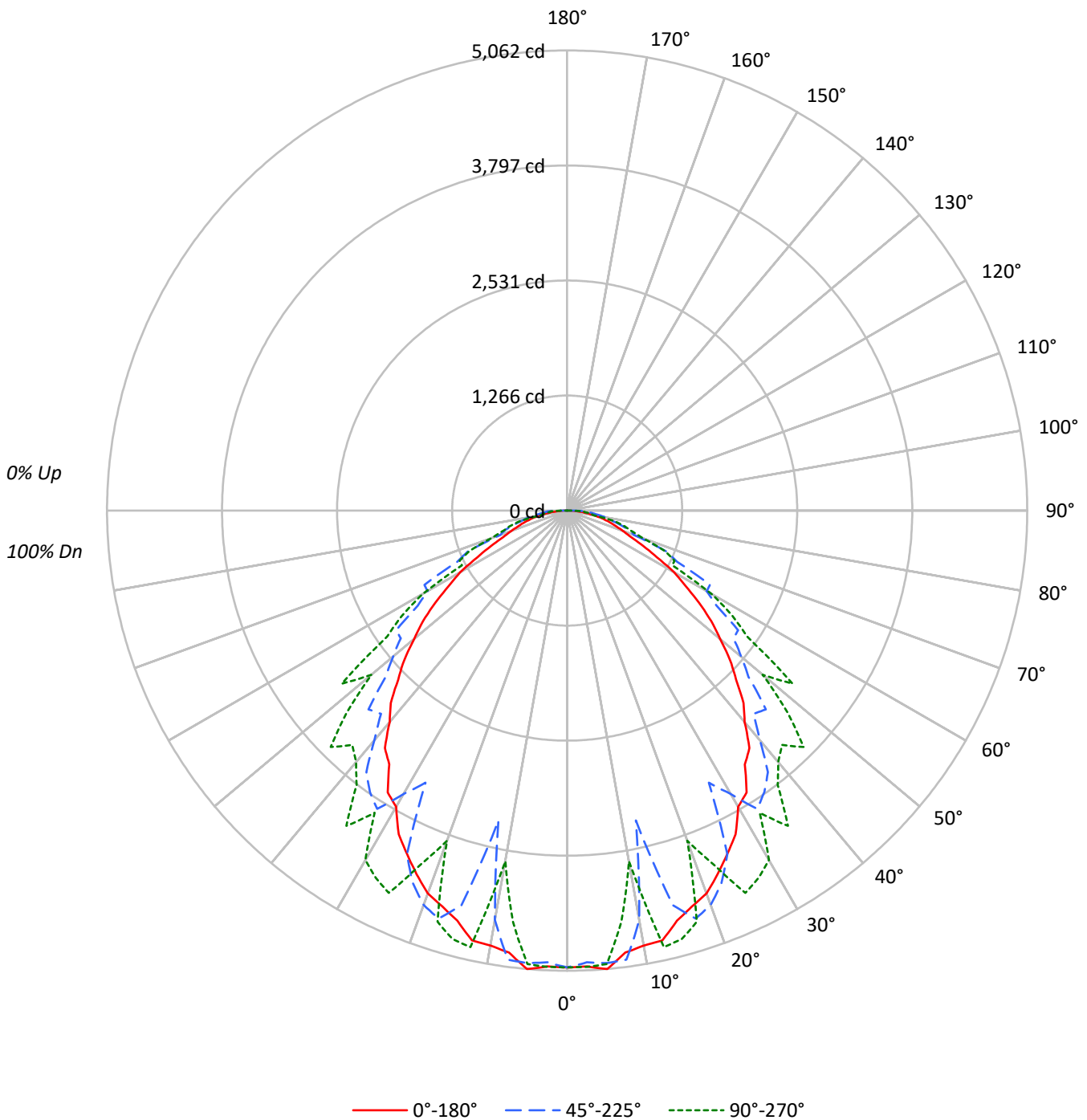
Lumens per Lamp: N/A
Luminaire Lumens: 12210.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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°	7376	7376	7376
5°	7451	7306	7309
10°	7224	6714	5727
15°	7074	6674	7204
20°	6969	6991	5805
25°	6711	6493	7153
30°	6331	5811	7077
35°	6057	6389	7049
40°	5760	5895	6338
45°	5389	5911	6885
50°	4945	5178	5674
55°	4453	5232	5350
60°	3902	4526	4522
65°	3130	3908	3669
70°	2692	2719	2915
75°	2555	2610	2591
80°	2353	2458	1536
85°	2182	2218	1461



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.3	3.8
10°-20°	1285.8	10.5
20°-30°	1858.9	15.2
30°-40°	2328.1	19.1
40°-50°	2266.2	18.6
50°-60°	1939.9	15.9
60°-70°	1203.4	9.9
70°-80°	626.2	5.1
80°-90°	243.2	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°	3603.0	29.5
0°-40°	5931.1	48.6
0°-60°	10137.2	83.0
0°-90°	12210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5025	5025	5025	5025	5025	
5°	5062	5047	4996	4976	5008	473
15°	4671	4688	4493	4904	4879	1322
25°	4168	3455	4170	4287	4641	1915
35°	3410	3554	3780	3749	4234	2155
45°	2628	2360	3092	3162	3679	2033
55°	1771	1939	2295	2740	2416	1584
65°	926	1039	1333	1128	1304	939
75°	472	548	608	653	643	499
85°	148	197	261	300	195	159
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5025.2	5025.2	5025.2	5025.2	5025.2
2.5°	5019.4	4997.9	4974.6	5015.5	5023.3
5°	5062.2	5046.7	4996.0	4976.5	5007.7
7.5°	4904.4	4937.5	4984.3	4731.0	4567.3
10°	4857.7	4840.1	4573.2	3521.0	3916.5
12.5°	4842.1	4820.6	3491.7	4894.7	4918.1
15°	4670.6	4688.1	4493.3	4904.4	4879.1
17.5°	4565.4	4323.8	4705.7	4787.5	4742.7
20°	4481.6	3768.4	4616.0	4397.8	3863.9
22.5°	4327.7	3213.1	4436.8	3528.8	4214.6
25°	4167.9	3454.7	4169.8	4286.7	4641.4
27.5°	4013.9	3914.6	3372.9	4473.8	4557.6
30°	3762.6	3881.4	3598.9	4380.3	4438.7
32.5°	3674.9	3706.1	3891.2	4136.7	3941.8
35°	3409.9	3554.1	3780.1	3748.9	4234.1
37.5°	3293.0	3333.9	3628.1	3947.7	3803.5
40°	3037.7	3100.1	3298.8	3487.8	3610.6
42.5°	2872.1	2663.6	3031.9	3380.7	3497.6
45°	2628.5	2359.7	3092.3	3162.4	3678.8
47.5°	2429.8	2344.1	2706.5	3291.0	3291.0
50°	2197.9	2310.9	2499.9	2940.3	2807.8
52.5°	1999.2	2153.1	2307.0	2556.5	3127.4
55°	1771.2	1938.8	2295.4	2739.6	2416.2
57.5°	1547.1	1689.4	1948.5	2098.6	2155.1
60°	1358.1	1496.5	1771.2	1886.2	1831.6
62.5°	1114.6	1289.9	1771.2	1486.7	1303.6
65°	925.5	1038.6	1332.8	1128.2	1303.6
67.5°	759.9	876.8	1184.7	1089.2	1161.3
70°	648.9	732.6	783.3	974.3	882.7
72.5°	555.3	615.7	717.1	736.5	732.6
75°	471.5	547.5	607.9	652.8	643.0
77.5°	391.7	498.8	500.8	600.1	522.2
80°	298.1	341.0	432.6	391.7	294.2
82.5°	218.2	266.9	329.3	339.0	259.2
85°	148.1	196.8	261.1	300.1	194.9
87.5°	68.2	134.4	212.4	268.9	177.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)