

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-LD5-14-W-TWB-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 (P34175)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-14-W-TWB-UNV-L835-CD2-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

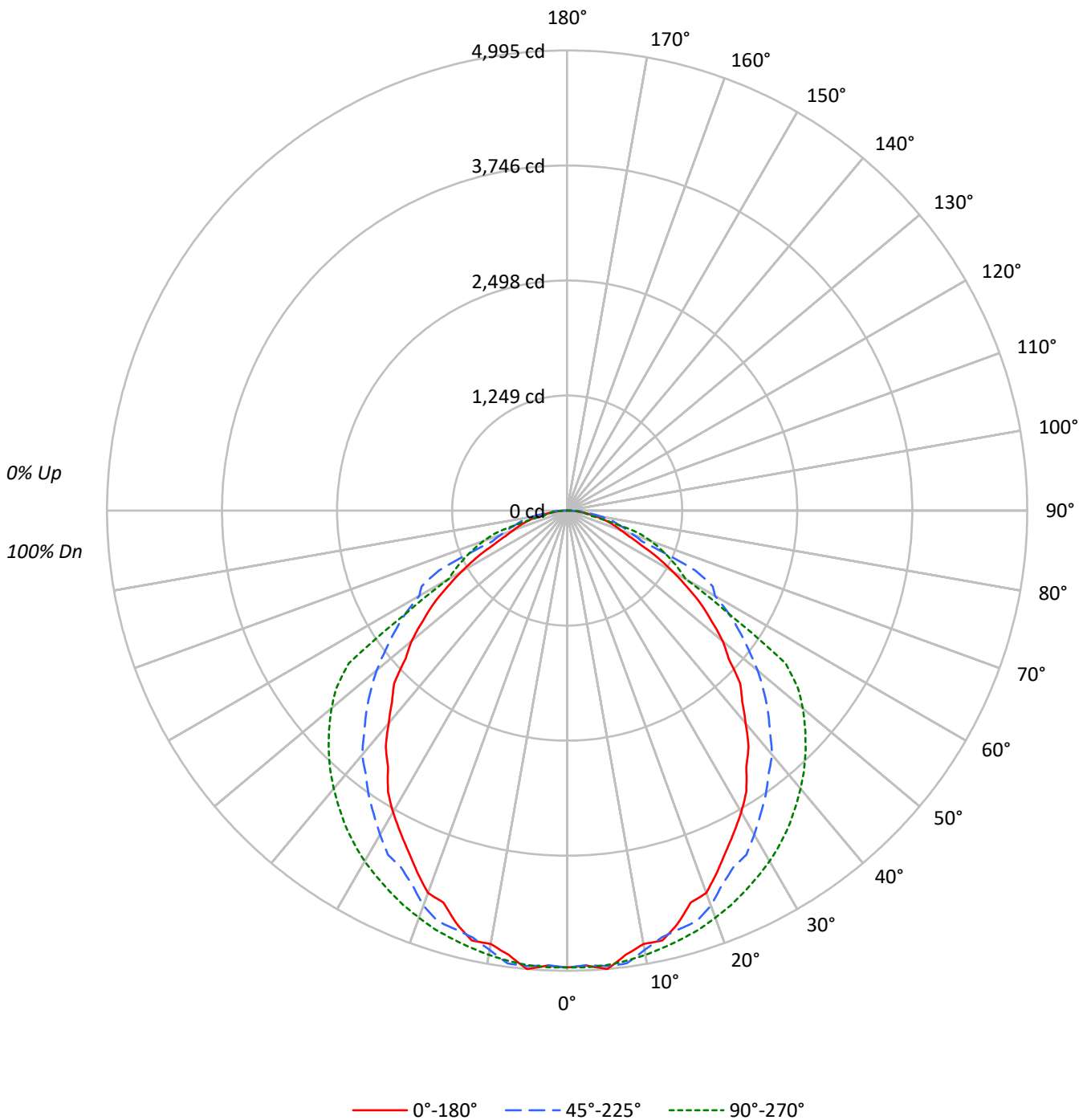
Lumens per Lamp: N/A
Luminaire Lumens: 12507.0 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 102
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	101	98	107	103	99	96	99	96	93		95	92	90		91	89	88	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72	68	64	62
4	84	73	65	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	50		60	54	49		58	53	49	46
6	72	59	50	44	70	58	50	44	56	49	44		55	48	43		53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39		50	43	39		49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	35		45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38	32	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14559	14559	14559
5°	14688	14506	14454
10°	14175	14197	14323
15°	14009	13938	14210
20°	13677	13779	14130
25°	13062	13247	14059
30°	12630	13051	14015
35°	11942	12632	13948
40°	11317	12284	13839
45°	10759	11690	13702
50°	9779	11078	13498
55°	8779	10297	12816
60°	7437	9340	7328
65°	5837	8860	6929
70°	4958	5206	6371
75°	4681	4713	4017
80°	4193	4130	2366
85°	3165	3052	2009



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.8	3.8
10°-20°	1333.9	10.7
20°-30°	1991.0	15.9
30°-40°	2369.9	18.9
40°-50°	2396.2	19.2
50°-60°	2018.9	16.1
60°-70°	1166.6	9.3
70°-80°	575.9	4.6
80°-90°	184.7	1.5
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°	3794.8	30.3
0°-40°	6164.7	49.3
0°-60°	10579.8	84.6
0°-90°	12507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12507.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4960	4960	4960	4960	4960	
5°	4995	5007	4963	4939	4952	467
15°	4640	4712	4703	4829	4812	1303
25°	4080	4155	4270	4478	4561	1884
35°	3391	3528	3759	4078	4189	2133
45°	2656	2737	3083	3453	3661	2016
55°	1776	1916	2284	2724	2894	1577
65°	885	1080	1535	1154	1231	911
75°	451	555	563	619	498	474
85°	121	149	189	225	134	139
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4959.5	4959.5	4959.5	4959.5	4959.5
2.5°	4944.4	4950.1	4938.7	4967.0	4961.4
5°	4995.4	5006.7	4963.3	4938.7	4951.9
7.5°	4865.1	4889.6	4957.6	4925.5	4929.3
10°	4776.4	4780.1	4842.4	4942.5	4897.2
12.5°	4780.1	4772.6	4744.3	4916.1	4857.5
15°	4640.4	4712.2	4702.7	4829.2	4812.2
17.5°	4461.1	4530.9	4672.5	4742.4	4766.9
20°	4417.7	4393.1	4563.0	4631.0	4702.7
22.5°	4249.6	4347.8	4395.0	4546.0	4638.6
25°	4079.7	4155.3	4270.4	4478.1	4561.1
27.5°	3926.8	4008.0	4211.9	4413.9	4480.0
30°	3779.6	3855.1	4060.9	4332.7	4395.0
32.5°	3619.1	3713.5	3907.9	4234.5	4296.8
35°	3390.7	3528.5	3758.8	4077.8	4189.2
37.5°	3234.0	3324.6	3594.5	3911.7	4066.5
40°	3015.0	3160.3	3460.5	3783.3	3941.9
42.5°	2813.0	2956.4	3258.5	3622.9	3807.9
45°	2656.3	2737.4	3082.9	3453.0	3660.6
47.5°	2376.9	2582.6	2892.3	3271.7	3503.9
50°	2205.1	2346.6	2699.7	3098.0	3339.7
52.5°	1982.3	2140.9	2482.6	2905.5	3156.6
55°	1776.5	1916.2	2284.3	2724.2	2894.1
57.5°	1542.4	1721.8	2078.6	2518.4	2065.4
60°	1321.5	1500.9	1852.0	1701.0	1483.9
62.5°	1110.1	1268.7	1782.2	1280.0	1361.2
65°	885.4	1079.9	1534.9	1153.5	1230.9
67.5°	726.8	862.8	885.4	1032.7	1100.6
70°	617.3	683.4	764.6	915.6	964.7
72.5°	536.2	564.5	664.5	813.7	821.2
75°	451.2	555.0	562.6	619.2	498.4
77.5°	360.6	447.4	487.1	360.6	254.9
80°	283.2	304.0	375.7	317.2	226.5
82.5°	196.3	224.7	260.5	273.7	186.9
85°	120.8	149.1	188.8	224.7	134.0
87.5°	51.0	81.2	130.3	173.7	73.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)