

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-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 (P34173)
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-UNV-L835-CD2-U
Description: Metalux 4' ILED WITH OPEN WIDE DISTRIBUTION

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

Summary

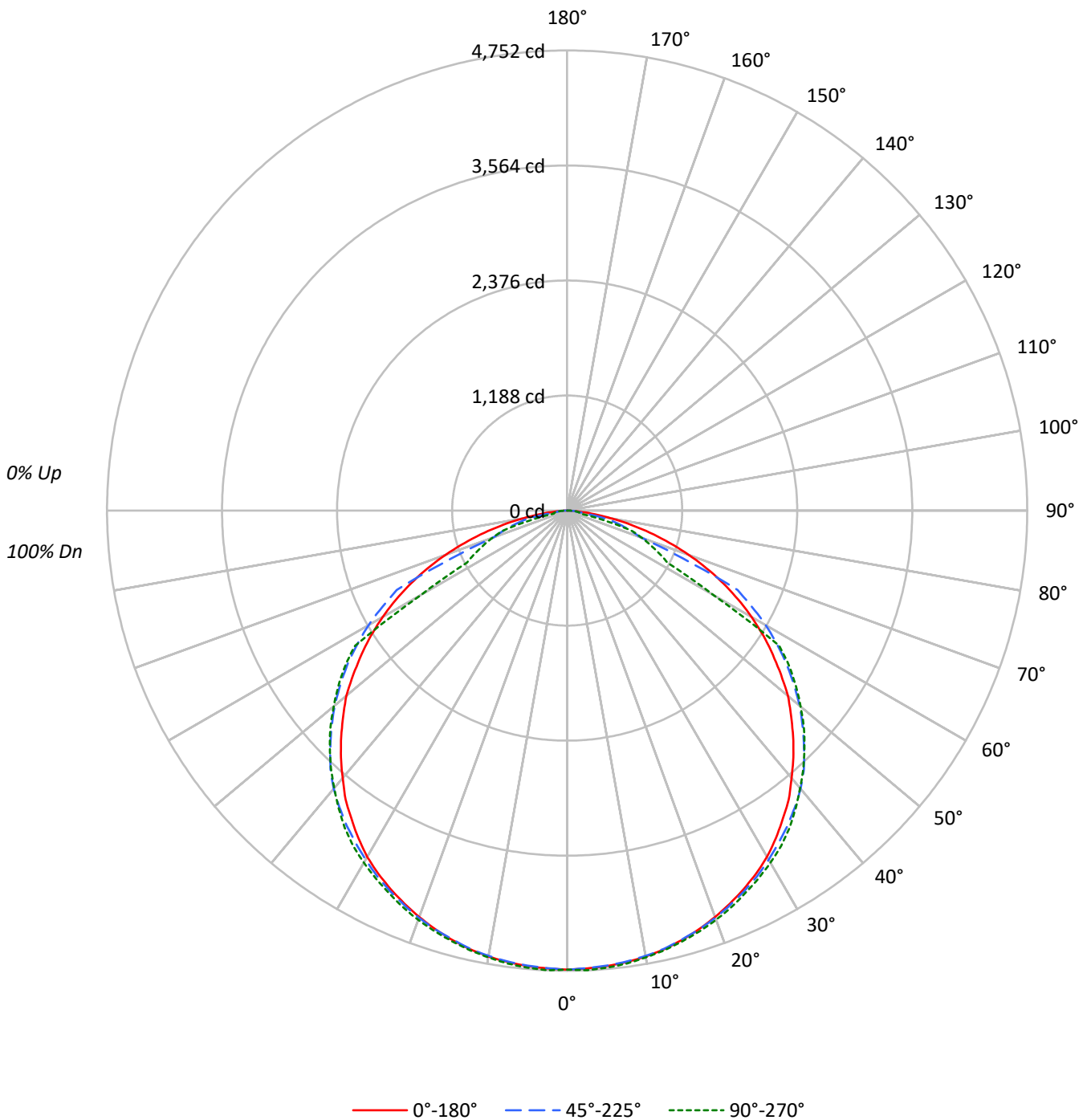
Lumens per Lamp: N/A
Luminaire Lumens: 13679.0 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87					85				
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73					71				
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62					60				
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54					51				
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47					44				
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39				
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34				
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32					30				
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29					27				
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26					25				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13915	13915	13915
5°	13882	13787	13831
10°	13878	13693	13703
15°	13854	13585	13596
20°	13827	13516	13517
25°	13811	13439	13429
30°	13795	13378	13388
35°	13683	13341	13324
40°	13533	13315	13142
45°	13365	13114	12974
50°	13203	12859	12718
55°	12808	12483	12405
60°	12387	11957	8614
65°	11724	11213	5909
70°	10719	5463	5411
75°	9166	4744	3378
80°	6792	2801	1380
85°	3364	1403	1273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.7	3.3
10°-20°	1298.3	9.5
20°-30°	2001.8	14.6
30°-40°	2478.7	18.1
40°-50°	2638.6	19.3
50°-60°	2434.8	17.8
60°-70°	1558.9	11.4
70°-80°	702.2	5.1
80°-90°	116.0	0.8
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°	3749.7	27.4
0°-40°	6228.4	45.5
0°-60°	11301.9	82.6
0°-90°	13679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4740	4740	4740	4740	4740	
5°	4721	4729	4718	4731	4738	449
15°	4589	4597	4584	4606	4604	1296
25°	4314	4325	4332	4361	4357	1989
35°	3885	3925	3970	4012	4002	2432
45°	3300	3368	3458	3481	3466	2546
55°	2592	2686	2769	2815	2801	2318
65°	1778	1863	1942	1072	1050	1756
75°	884	961	566	581	419	939
85°	128	96	87	92	85	187
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4740.2	4740.2	4740.2	4740.2	4740.2
2.5°	4732.6	4742.0	4728.8	4742.0	4751.5
5°	4721.3	4728.8	4717.5	4730.7	4738.3
7.5°	4702.4	4709.9	4696.7	4709.9	4717.5
10°	4676.0	4679.7	4670.3	4683.5	4685.4
12.5°	4638.2	4642.0	4634.4	4647.7	4649.5
15°	4589.1	4596.7	4583.5	4606.1	4604.2
17.5°	4532.5	4540.1	4534.4	4551.4	4553.3
20°	4466.4	4474.0	4475.9	4496.6	4498.5
22.5°	4392.8	4404.1	4406.0	4434.3	4432.4
25°	4313.5	4324.8	4332.4	4360.7	4356.9
27.5°	4226.7	4241.8	4253.1	4281.4	4281.4
30°	4128.5	4149.3	4162.5	4200.3	4198.4
32.5°	4011.5	4051.1	4066.2	4113.4	4109.6
35°	3885.0	3924.6	3969.9	4011.5	4002.0
37.5°	3760.4	3800.1	3862.3	3886.9	3875.6
40°	3605.6	3671.7	3751.0	3760.4	3743.4
42.5°	3458.4	3511.2	3618.8	3624.5	3609.4
45°	3299.8	3367.8	3458.4	3481.0	3465.9
47.5°	3135.6	3194.1	3299.8	3328.1	3316.8
50°	2977.0	3029.8	3133.7	3162.0	3146.9
52.5°	2782.6	2861.8	2950.6	2995.9	2978.9
55°	2591.9	2686.3	2769.3	2814.6	2801.4
57.5°	2401.2	2505.1	2567.3	2629.6	2597.6
60°	2201.1	2303.1	2371.0	2342.7	1744.3
62.5°	1993.5	2091.6	2148.3	1440.4	1168.5
65°	1778.3	1863.2	1942.5	1072.2	1049.6
67.5°	1559.3	1644.2	1293.1	953.3	932.6
70°	1334.6	1413.9	802.3	830.6	819.3
72.5°	1108.1	1183.6	689.0	721.1	706.0
75°	883.5	960.9	566.3	581.4	419.1
77.5°	673.9	662.6	456.8	320.9	143.5
80°	458.7	305.8	254.8	134.0	132.1
82.5°	285.1	205.8	107.6	118.9	117.0
85°	128.4	96.3	86.8	92.5	84.9
87.5°	45.3	47.2	52.9	49.1	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)