

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-N-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 (P34185)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-14-N-TWB-UNV-L835-CD2-U
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

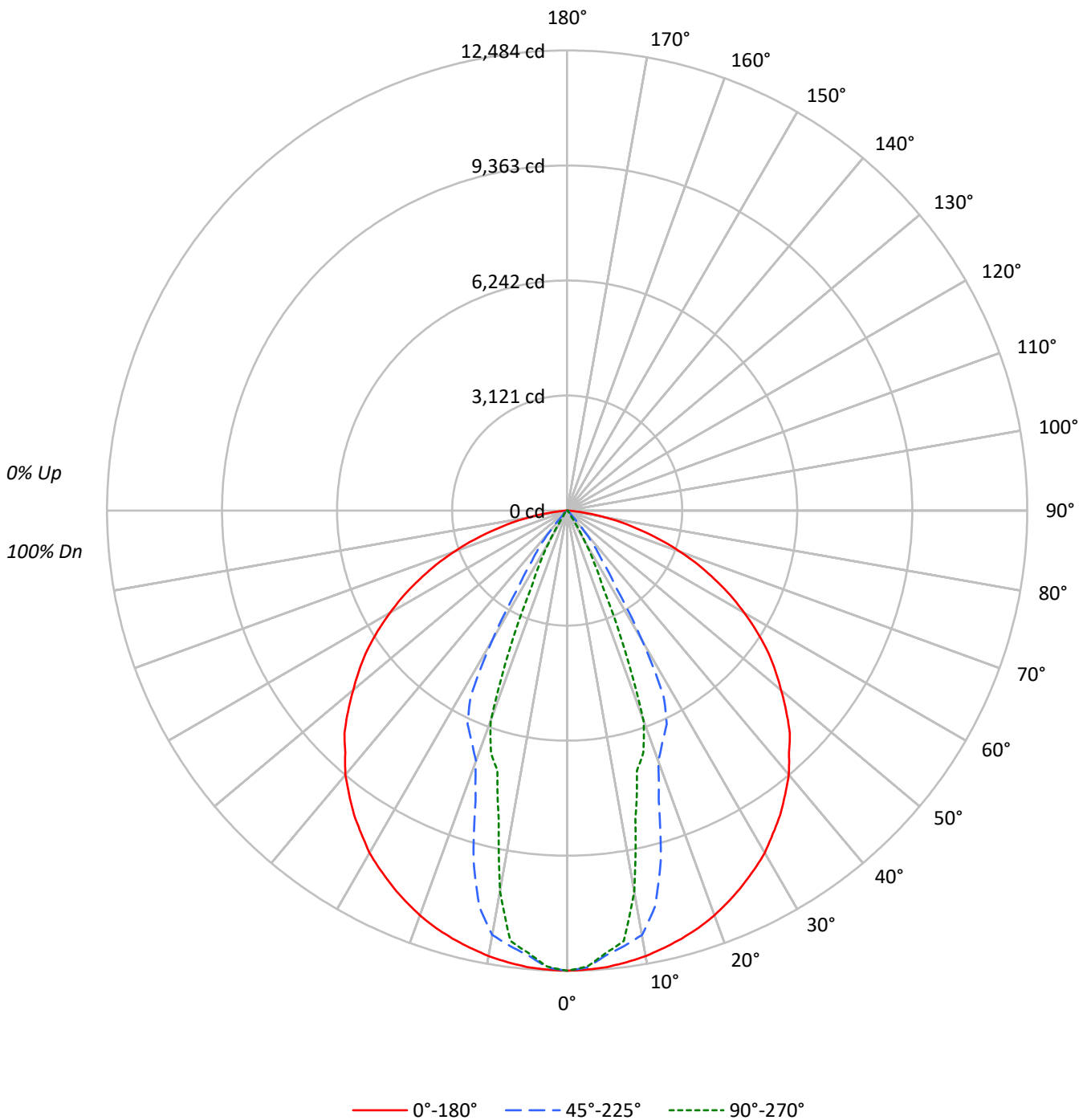
Lumens per Lamp: N/A
Luminaire Lumens: 12556.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48					48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36647	36647	36647
5°	36551	35394	35167
10°	36420	34274	30645
15°	36288	29082	21578
20°	36172	21830	18244
25°	35963	19834	7084
30°	35833	13125	3019
35°	35493	5585	667
40°	35126	2461	476
45°	34610	589	220
50°	33602	363	119
55°	32782	230	122
60°	31218	208	126
65°	29152	215	133
70°	26206	227	143
75°	21521	263	158
80°	15270	302	144
85°	4888	317	177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1146.7	9.1
10°-20°	2737.0	21.8
20°-30°	2992.6	23.8
30°-40°	2165.7	17.2
40°-50°	1616.3	12.9
50°-60°	943.8	7.5
60°-70°	586.7	4.7
70°-80°	306.0	2.4
80°-90°	61.1	0.5
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
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0°-30°	6876.4	54.8
0°-40°	9042.1	72.0
0°-60°	11602.1	92.4
0°-90°	12556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12484	12484	12484	12484	12484	
5°	12431	12386	12110	12073	12048	###
15°	12020	11598	9812	7673	7308	3394
25°	11232	9535	6394	3334	2298	5181
35°	10077	6147	1662	360	200	6300
45°	8545	4017	155	106	59	6561
55°	6634	778	51	59	28	5906
65°	4422	65	37	35	24	4372
75°	2074	39	31	26	20	2223
85°	187	26	20	18	12	354
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12483.7	12483.7	12483.7	12483.7	12483.7
2.5°	12464.1	12479.8	12405.1	12405.1	12383.5
5°	12430.7	12385.5	12110.5	12073.2	12047.6
7.5°	12358.0	12181.2	11912.1	11863.0	11778.5
10°	12271.6	11961.2	11690.1	10990.8	10478.1
12.5°	12149.8	11778.5	11010.4	9277.8	8566.7
15°	12020.1	11597.8	9812.1	7672.9	7307.5
17.5°	11866.9	11358.1	8254.4	7036.5	6879.3
20°	11684.2	10969.2	7229.0	6598.4	6071.9
22.5°	11470.1	10366.1	6765.4	5484.6	4064.3
25°	11232.4	9535.2	6394.1	3333.6	2298.3
27.5°	10982.9	8553.0	5659.4	2025.3	1569.6
30°	10723.6	7543.3	4084.0	1451.7	946.8
32.5°	10391.6	6718.2	2477.1	817.2	422.3
35°	10077.3	6146.6	1661.9	359.5	200.4
37.5°	9713.9	5751.7	1214.0	190.5	141.4
40°	9358.4	5366.7	693.4	143.4	135.5
42.5°	8910.5	4887.4	292.7	135.5	96.3
45°	8545.1	4017.2	155.2	106.1	58.9
47.5°	8061.9	2750.2	104.1	82.5	37.3
50°	7576.7	1699.2	88.4	64.8	29.5
52.5°	7115.0	1125.6	64.8	60.9	27.5
55°	6633.8	777.9	51.1	58.9	27.5
57.5°	6099.4	383.1	43.2	57.0	25.5
60°	5547.4	149.3	41.3	55.0	25.5
62.5°	5001.3	82.5	39.3	45.2	23.6
65°	4421.8	64.8	37.3	35.4	23.6
67.5°	3848.2	53.0	35.4	33.4	23.6
70°	3262.9	47.1	33.4	29.5	21.6
72.5°	2665.7	43.2	31.4	29.5	19.6
75°	2074.4	39.3	31.4	25.5	19.6
77.5°	1551.9	37.3	29.5	25.5	15.7
80°	1031.3	33.4	27.5	21.6	13.8
82.5°	569.7	31.4	23.6	19.6	13.8
85°	186.6	25.5	19.6	17.7	11.8
87.5°	29.5	17.7	15.7	15.7	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)