

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-N-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: 8ILED-LD5-14-N-UNV-L835-CD2-U
Description: Metalux 8' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

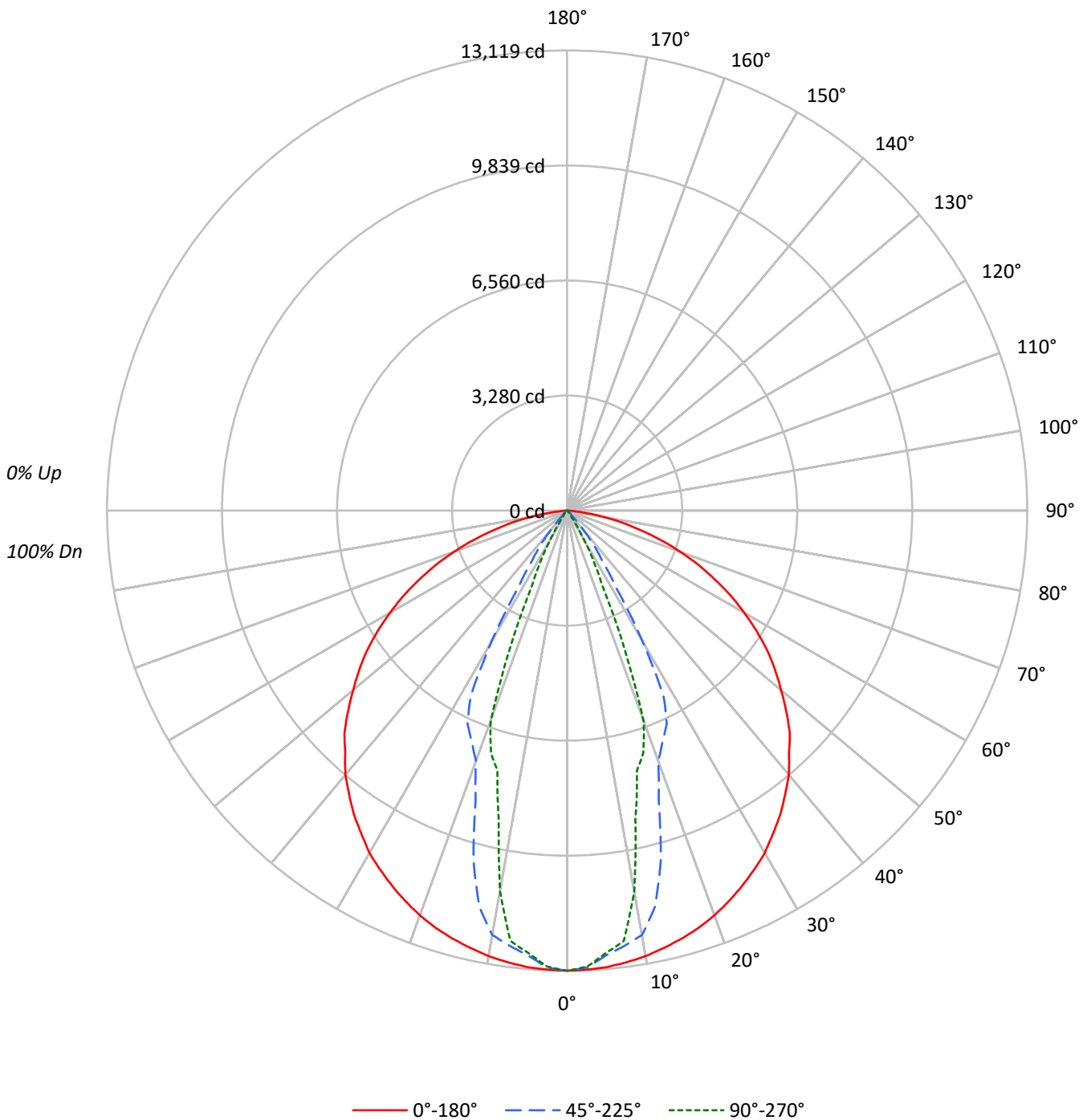
Lumens per Lamp: N/A
Luminaire Lumens: 13195.0 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 100.8
Input Voltage (V):
Input Current (Ain): 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°	19256	19256	19256
5°	19227	18612	18478
10°	19179	18037	16102
15°	19131	15316	11338
20°	19093	11506	9587
25°	19006	10463	3722
30°	18963	6930	1586
35°	18812	2952	351
40°	18648	1302	250
45°	18410	312	116
50°	17915	192	63
55°	17527	122	64
60°	16751	111	66
65°	15718	115	70
70°	14227	122	75
75°	11812	142	83
80°	8555	164	76
85°	2890	175	93



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1205.1	9.1
10°-20°	2876.3	21.8
20°-30°	3144.9	23.8
30°-40°	2276.0	17.2
40°-50°	1698.5	12.9
50°-60°	991.8	7.5
60°-70°	616.6	4.7
70°-80°	321.6	2.4
80°-90°	64.3	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
0°-30°	7226.3	54.8
0°-40°	9502.3	72.0
0°-60°	12192.6	92.4
0°-90°	13195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13195.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13119	13119	13119	13119	13119	
5°	13063	13016	12727	12688	12661	###
15°	12632	12188	10312	8063	7679	3567
25°	11804	10020	6720	3503	2415	5445
35°	10590	6459	1746	378	211	6621
45°	8980	4222	163	112	62	6895
55°	6971	818	54	62	29	6207
65°	4647	68	39	37	25	4595
75°	2180	41	33	27	21	2336
85°	196	27	21	19	12	372
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13119.0	13119.0	13119.0	13119.0	13119.0
2.5°	13098.4	13114.9	13036.5	13036.5	13013.8
5°	13063.3	13015.8	12726.8	12687.6	12660.8
7.5°	12986.9	12801.1	12518.3	12466.7	12377.9
10°	12896.1	12569.9	12285.0	11550.1	11011.3
12.5°	12768.1	12377.9	11570.8	9750.0	9002.7
15°	12631.8	12188.0	10311.5	8063.4	7679.4
17.5°	12470.8	11936.2	8674.5	7394.6	7229.4
20°	12278.8	11527.4	7596.9	6934.2	6381.0
22.5°	12053.8	10893.7	7109.7	5763.7	4271.2
25°	11804.0	10020.4	6719.5	3503.2	2415.3
27.5°	11541.9	8988.2	5947.4	2128.4	1649.4
30°	11269.4	7927.2	4291.8	1525.6	995.0
32.5°	10920.5	7060.1	2603.2	858.8	443.8
35°	10590.2	6459.4	1746.5	377.8	210.6
37.5°	10208.3	6044.5	1275.8	200.2	148.6
40°	9834.6	5639.8	728.7	150.7	142.4
42.5°	9364.0	5136.1	307.6	142.4	101.2
45°	8980.0	4221.6	163.1	111.5	61.9
47.5°	8472.2	2890.1	109.4	86.7	39.2
50°	7962.3	1785.7	92.9	68.1	31.0
52.5°	7477.1	1182.9	68.1	64.0	28.9
55°	6971.4	817.5	53.7	61.9	28.9
57.5°	6409.9	402.6	45.4	59.9	26.8
60°	5829.8	156.9	43.4	57.8	26.8
62.5°	5255.9	86.7	41.3	47.5	24.8
65°	4646.9	68.1	39.2	37.2	24.8
67.5°	4044.1	55.7	37.2	35.1	24.8
70°	3428.9	49.5	35.1	31.0	22.7
72.5°	2801.3	45.4	33.0	31.0	20.6
75°	2180.0	41.3	33.0	26.8	20.6
77.5°	1630.8	39.2	31.0	26.8	16.5
80°	1083.8	35.1	28.9	22.7	14.5
82.5°	598.7	33.0	24.8	20.6	14.5
85°	196.1	26.8	20.6	18.6	12.4
87.5°	31.0	18.6	16.5	16.5	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)