

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-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-UNV-L835-CD2-U
Description: Metalux 4' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

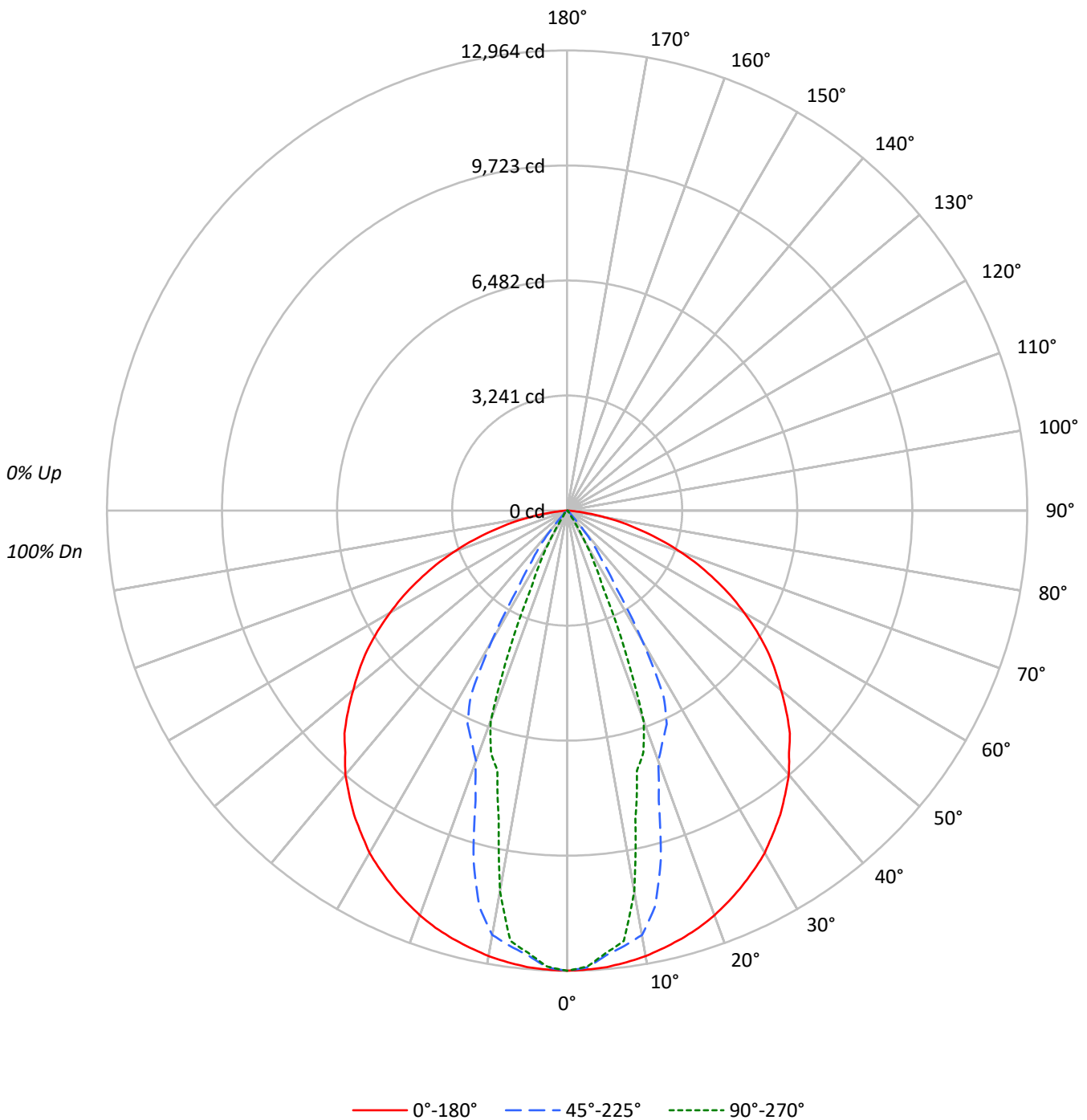
Lumens per Lamp: N/A
Luminaire Lumens: 13039.0 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 102
Input Voltage (V):
Input Current (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°	38057	38057	38057
5°	37957	36755	36519
10°	37821	35592	31823
15°	37684	30201	22408
20°	37564	22670	18946
25°	37347	20597	7357
30°	37212	13630	3136
35°	36858	5800	693
40°	36477	2556	494
45°	35942	611	229
50°	34894	377	124
55°	34043	239	127
60°	32419	216	131
65°	30273	224	138
70°	27214	236	148
75°	22349	273	164
80°	15857	314	149
85°	5077	330	183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1190.9	9.1
10°-20°	2842.3	21.8
20°-30°	3107.7	23.8
30°-40°	2249.1	17.2
40°-50°	1678.5	12.9
50°-60°	980.1	7.5
60°-70°	609.3	4.7
70°-80°	317.8	2.4
80°-90°	63.5	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°	7140.9	54.8
0°-40°	9389.9	72.0
0°-60°	12048.4	92.4
0°-90°	13039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12964	12964	12964	12964	12964	
5°	12909	12862	12576	12538	12511	###
15°	12482	12044	10190	7968	7589	3525
25°	11664	9902	6640	3462	2387	5381
35°	10465	6383	1726	373	208	6543
45°	8874	4172	161	110	61	6814
55°	6889	808	53	61	29	6133
65°	4592	67	39	37	24	4540
75°	2154	41	33	26	20	2309
85°	194	26	20	18	12	367
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12963.9	12963.9	12963.9	12963.9	12963.9
2.5°	12943.5	12959.9	12882.3	12882.3	12859.9
5°	12908.9	12861.9	12576.3	12537.6	12511.1
7.5°	12833.4	12649.8	12370.3	12319.3	12231.6
10°	12743.6	12421.3	12139.8	11413.6	10881.1
12.5°	12617.1	12231.6	11434.0	9634.7	8896.3
15°	12482.5	12043.9	10189.6	7968.1	7588.6
17.5°	12323.4	11795.0	8571.9	7307.1	7143.9
20°	12133.7	11391.1	7507.0	6852.2	6305.5
22.5°	11911.3	10764.9	7025.6	5695.6	4220.7
25°	11664.5	9902.0	6640.1	3461.8	2386.8
27.5°	11405.4	8882.0	5877.1	2103.2	1629.9
30°	11136.1	7833.4	4241.1	1507.5	983.3
32.5°	10791.4	6976.7	2572.4	848.6	438.6
35°	10465.0	6383.0	1725.8	373.3	208.1
37.5°	10087.6	5973.0	1260.7	197.9	146.9
40°	9718.4	5573.2	720.1	148.9	140.8
42.5°	9253.3	5075.4	304.0	140.8	100.0
45°	8873.8	4171.7	161.2	110.2	61.2
47.5°	8372.0	2855.9	108.1	85.7	38.8
50°	7868.1	1764.6	91.8	67.3	30.6
52.5°	7388.7	1168.9	67.3	63.2	28.6
55°	6888.9	807.8	53.0	61.2	28.6
57.5°	6334.1	397.8	44.9	59.2	26.5
60°	5760.8	155.0	42.8	57.1	26.5
62.5°	5193.7	85.7	40.8	46.9	24.5
65°	4591.9	67.3	38.8	36.7	24.5
67.5°	3996.3	55.1	36.7	34.7	24.5
70°	3388.4	49.0	34.7	30.6	22.4
72.5°	2768.2	44.9	32.6	30.6	20.4
75°	2154.2	40.8	32.6	26.5	20.4
77.5°	1611.6	38.8	30.6	26.5	16.3
80°	1071.0	34.7	28.6	22.4	14.3
82.5°	591.6	32.6	24.5	20.4	14.3
85°	193.8	26.5	20.4	18.4	12.2
87.5°	30.6	18.4	16.3	16.3	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)