

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-L840-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-L840-CD2-U
Description: Metalux 8' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

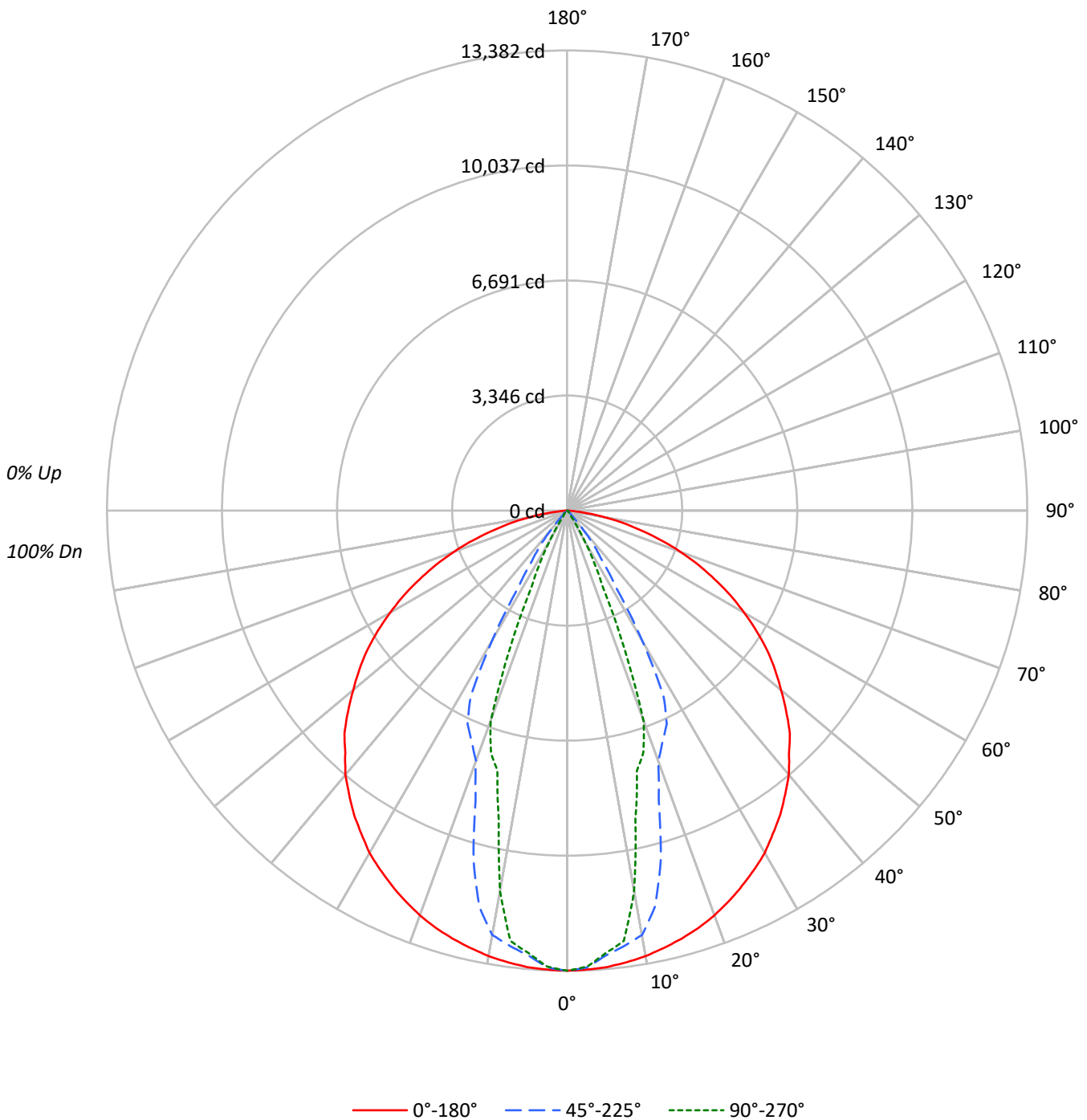
Lumens per Lamp: N/A
Luminaire Lumens: 13459.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86		90	87	84		87	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77		83	79	76		81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70		77	72	69		75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63		72	67	63		70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53		62	57	53		61	56	53	51
8	73	62	55	50	71	61	54	50	60	54	50		59	53	49		58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46		55	50	46		54	49	46	44
10	65	54	48	43	64	54	48	43	53	47	43		52	47	43		51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19641	19641	19641
5°	19611	18984	18848
10°	19562	18398	16424
15°	19514	15623	11565
20°	19475	11737	9778
25°	19387	10672	3797
30°	19343	7069	1618
35°	19188	3011	358
40°	19022	1328	255
45°	18779	318	118
50°	18273	196	64
55°	17878	125	65
60°	17086	113	68
65°	16032	117	71
70°	14511	124	77
75°	12048	145	85
80°	8726	168	77
85°	2947	179	94



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1229.2	9.1
10°-20°	2933.8	21.8
20°-30°	3207.8	23.8
30°-40°	2321.5	17.2
40°-50°	1732.5	12.9
50°-60°	1011.6	7.5
60°-70°	628.9	4.7
70°-80°	328.0	2.4
80°-90°	65.6	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°	7370.9	54.8
0°-40°	9692.4	72.0
0°-60°	12436.5	92.4
0°-90°	13459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13459.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13382	13382	13382	13382	13382	
5°	13325	13276	12981	12941	12914	###
15°	12885	12432	10518	8225	7833	3638
25°	12040	10221	6854	3573	2464	5554
35°	10802	6589	1781	385	215	6754
45°	9160	4306	166	114	63	7033
55°	7111	834	55	63	30	6331
65°	4740	70	40	38	25	4686
75°	2224	42	34	27	21	2383
85°	200	27	21	19	13	379
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13381.5	13381.5	13381.5	13381.5	13381.5
2.5°	13360.5	13377.3	13297.3	13297.3	13274.1
5°	13324.7	13276.2	12981.4	12941.4	12914.1
7.5°	13246.8	13057.2	12768.8	12716.1	12625.6
10°	13154.1	12821.4	12530.8	11781.2	11231.6
12.5°	13023.6	12625.6	11802.3	9945.1	9182.8
15°	12884.6	12431.9	10517.8	8224.7	7833.1
17.5°	12720.3	12175.0	8848.0	7542.5	7374.0
20°	12524.5	11758.1	7748.9	7072.9	6508.6
22.5°	12295.0	11111.6	7251.9	5879.0	4356.6
25°	12040.2	10220.9	6853.9	3573.3	2463.6
27.5°	11772.8	9168.1	6066.4	2170.9	1682.4
30°	11494.8	8085.8	4377.7	1556.1	1014.9
32.5°	11139.0	7201.4	2655.2	876.0	452.7
35°	10802.1	6588.6	1781.4	385.3	214.8
37.5°	10412.5	6165.4	1301.3	204.2	151.6
40°	10031.4	5752.7	743.3	153.7	145.3
42.5°	9551.3	5238.9	313.7	145.3	103.2
45°	9159.7	4306.1	166.3	113.7	63.2
47.5°	8641.7	2947.9	111.6	88.4	40.0
50°	8121.6	1821.4	94.8	69.5	31.6
52.5°	7626.7	1206.5	69.5	65.3	29.5
55°	7110.8	833.8	54.7	63.2	29.5
57.5°	6538.1	410.6	46.3	61.1	27.4
60°	5946.4	160.0	44.2	59.0	27.4
62.5°	5361.0	88.4	42.1	48.4	25.3
65°	4739.9	69.5	40.0	37.9	25.3
67.5°	4125.0	56.9	37.9	35.8	25.3
70°	3497.5	50.5	35.8	31.6	23.2
72.5°	2857.4	46.3	33.7	31.6	21.1
75°	2223.6	42.1	33.7	27.4	21.1
77.5°	1663.5	40.0	31.6	27.4	16.8
80°	1105.5	35.8	29.5	23.2	14.7
82.5°	610.6	33.7	25.3	21.1	14.7
85°	200.0	27.4	21.1	19.0	12.6
87.5°	31.6	19.0	16.8	16.8	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)