

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-L850-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-L850-CD2-U
Description: Metalux 8' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

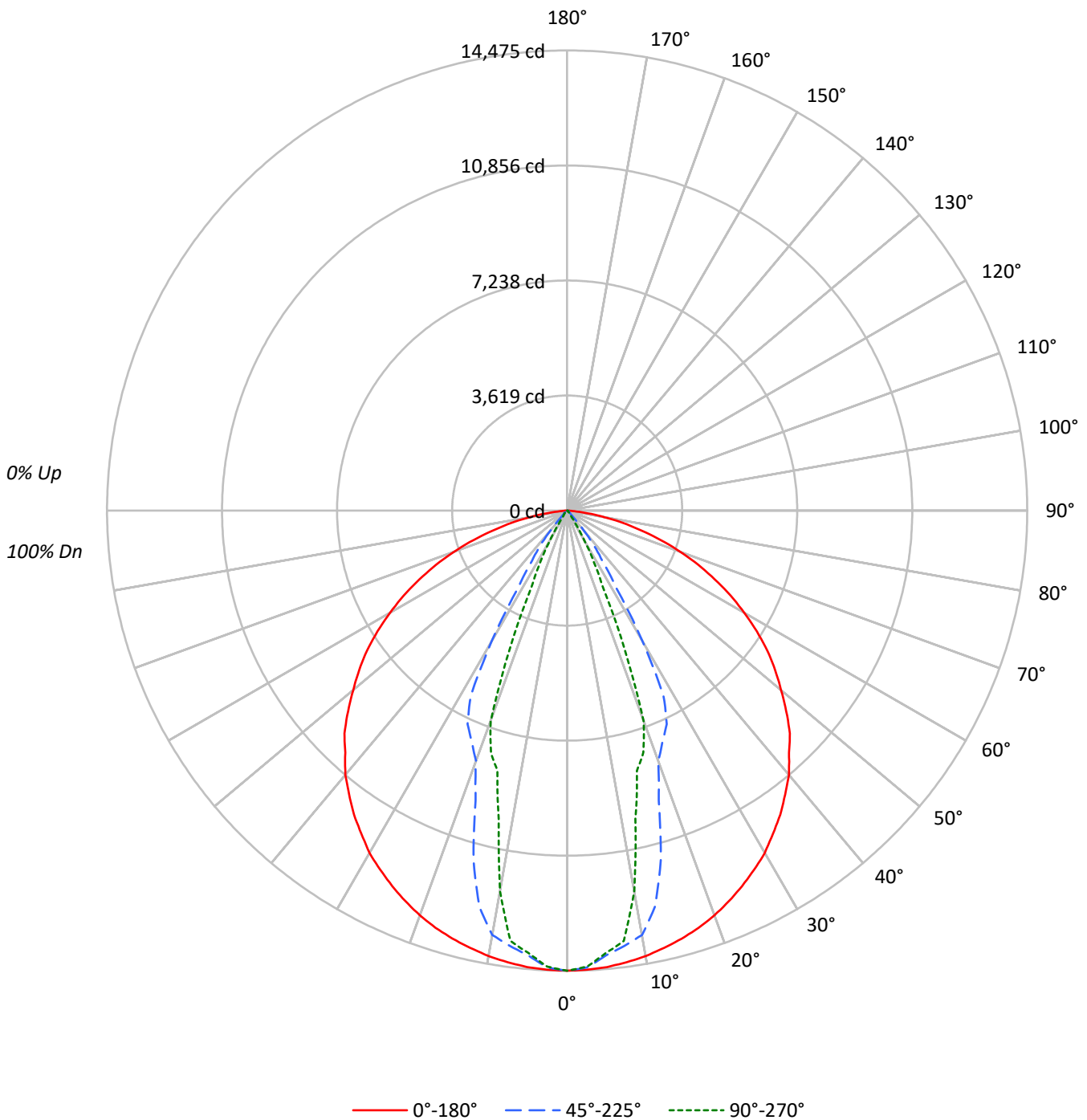
Lumens per Lamp: N/A
Luminaire Lumens: 14559.0 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 100.8
Input Voltage (V):
Input Current (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°	21247	21247	21247
5°	21214	20536	20388
10°	21161	19901	17767
15°	21109	16900	12510
20°	21066	12696	10577
25°	20971	11545	4107
30°	20924	7647	1751
35°	20756	3257	387
40°	20576	1437	276
45°	20314	344	128
50°	19767	212	69
55°	19339	135	71
60°	18483	122	73
65°	17343	127	77
70°	15698	134	83
75°	13033	156	92
80°	9439	181	83
85°	3189	194	103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1329.7	9.1
10°-20°	3173.6	21.8
20°-30°	3470.0	23.8
30°-40°	2511.2	17.2
40°-50°	1874.1	12.9
50°-60°	1094.3	7.5
60°-70°	680.3	4.7
70°-80°	354.8	2.4
80°-90°	70.9	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°	7973.3	54.8
0°-40°	10484.5	72.0
0°-60°	13453.0	92.4
0°-90°	14559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14559.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14475	14475	14475	14475	14475	
5°	14414	14361	14042	13999	13970	###
15°	13938	13448	11377	8897	8473	3936
25°	13024	11056	7414	3865	2665	6008
35°	11685	7127	1927	417	232	7306
45°	9908	4658	180	123	68	7608
55°	7692	902	59	68	32	6848
65°	5127	75	43	41	27	5069
75°	2405	46	36	30	23	2578
85°	216	30	23	20	14	410
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14475.2	14475.2	14475.2	14475.2	14475.2
2.5°	14452.4	14470.6	14384.1	14384.1	14359.0
5°	14413.7	14361.3	14042.4	13999.1	13969.5
7.5°	14329.4	14124.4	13812.4	13755.4	13657.5
10°	14229.2	13869.3	13555.0	12744.1	12149.6
12.5°	14088.0	13657.5	12766.9	10757.9	9933.3
15°	13937.6	13447.9	11377.4	8896.9	8473.3
17.5°	13760.0	13170.0	9571.2	8158.9	7976.7
20°	13548.1	12719.0	8382.2	7651.0	7040.6
22.5°	13299.9	12019.8	7844.6	6359.5	4712.7
25°	13024.3	11056.3	7414.1	3865.4	2665.0
27.5°	12735.0	9917.4	6562.2	2348.4	1819.9
30°	12434.3	8746.6	4735.5	1683.3	1097.9
32.5°	12049.4	7790.0	2872.3	947.5	489.7
35°	11684.9	7127.1	1927.0	416.8	232.3
37.5°	11263.5	6669.3	1407.7	220.9	164.0
40°	10851.3	6222.9	804.1	166.3	157.2
42.5°	10331.9	5667.1	339.4	157.2	111.6
45°	9908.3	4658.0	179.9	123.0	68.3
47.5°	9347.9	3188.9	120.7	95.7	43.3
50°	8785.3	1970.3	102.5	75.2	34.2
52.5°	8250.1	1305.2	75.2	70.6	31.9
55°	7692.0	902.0	59.2	68.3	31.9
57.5°	7072.5	444.2	50.1	66.1	29.6
60°	6432.4	173.1	47.8	63.8	29.6
62.5°	5799.2	95.7	45.6	52.4	27.3
65°	5127.2	75.2	43.3	41.0	27.3
67.5°	4462.1	61.5	41.0	38.7	27.3
70°	3783.4	54.7	38.7	34.2	25.1
72.5°	3090.9	50.1	36.4	34.2	22.8
75°	2405.3	45.6	36.4	29.6	22.8
77.5°	1799.4	43.3	34.2	29.6	18.2
80°	1195.8	38.7	31.9	25.1	15.9
82.5°	660.6	36.4	27.3	22.8	15.9
85°	216.4	29.6	22.8	20.5	13.7
87.5°	34.2	20.5	18.2	18.2	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)