

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-LD5-32-W-ASY-UNV-L850-CD4-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 (P34179)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-32-W-ASY-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

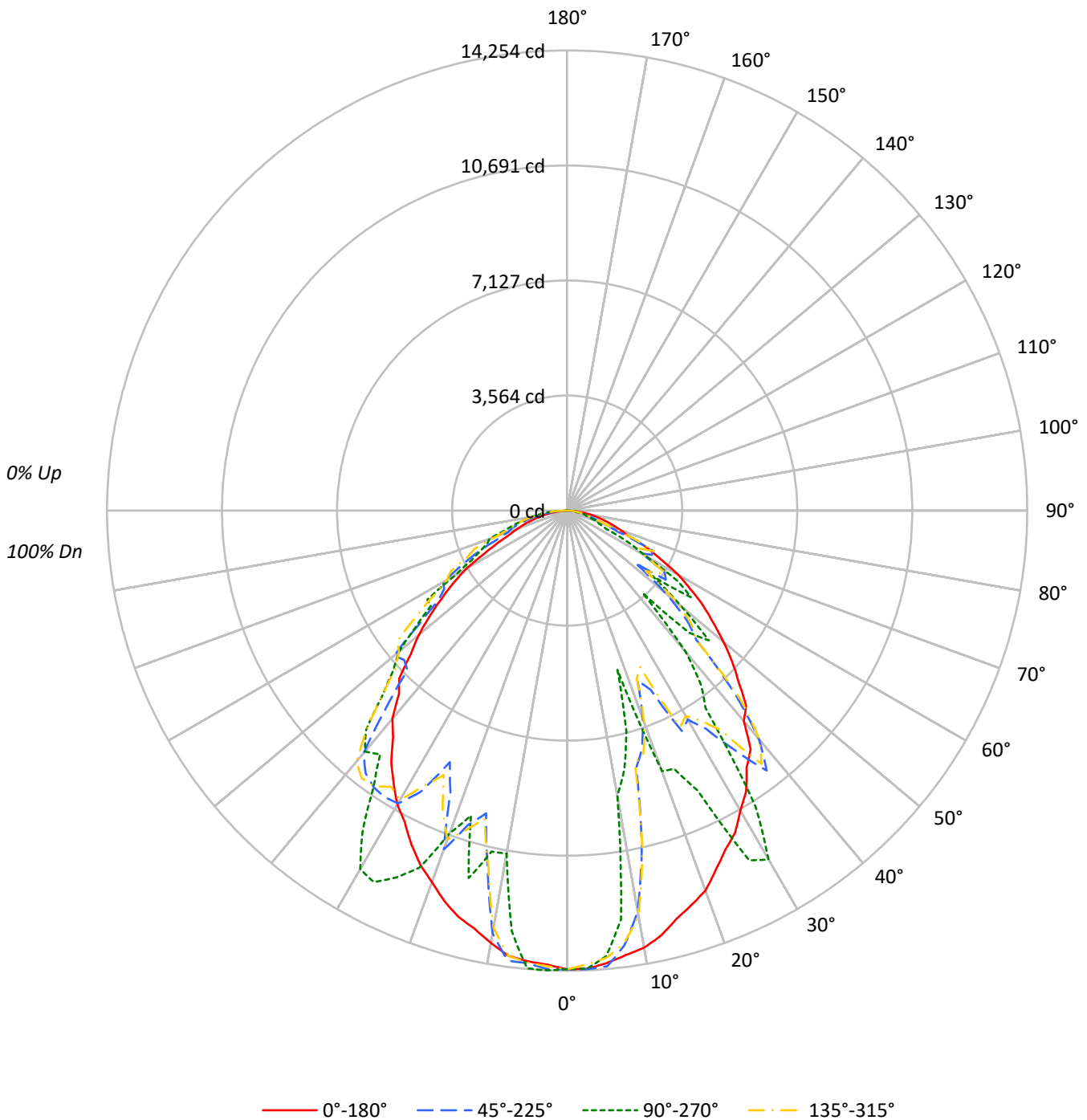
Lumens per Lamp: N/A
Luminaire Lumens: 27984.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.25 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 253.2
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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88					86				
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75					73				
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65					63				
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56					54				
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50					47				
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44					42				
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39					37				
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35					34				
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32					30				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20858	20858	20858	20858
5°	20708	20223	20629	20775
10°	20449	13119	20225	15781
15°	19827	10451	19725	17399
20°	19476	12904	19039	15966
25°	18663	14744	18374	19325
30°	18054	19893	17695	20442
35°	17226	12428	16873	17393
40°	16130	10003	15965	17108
45°	15405	10004	15068	15115
50°	14205	9314	13508	13736
55°	12939	10366	11917	11406
60°	11394	6814	10350	9850
65°	9253	3707	8025	8326
70°	7272	3245	6709	8425
75°	6506	2400	5955	6868
80°	5962	1668	5006	5613
85°	5280	1234	3425	4609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1293.1	4.6
10°-20°	3003.2	10.7
20°-30°	4470.2	16.0
30°-40°	5637.8	20.1
40°-50°	5106.1	18.2
50°-60°	4245.3	15.2
60°-70°	2564.8	9.2
70°-80°	1272.0	4.5
80°-90°	391.5	1.4
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°	8766.5	31.3
0°-40°	14404.3	51.5
0°-60°	23755.7	84.9
0°-90°	27984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27984.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	14210	14210	14210	14210	14210	
5°	14070	13856	14016	14234	14070	###
15°	13092	7078	13024	11784	13092	3703
25°	11591	9567	11412	12540	11591	5359
35°	9698	7466	9499	10448	9698	6093
45°	7514	5345	7350	8076	7514	5796
55°	5147	4682	4740	5151	5147	4580
65°	2736	1317	2372	2958	2736	2688
75°	1201	596	1099	1704	1201	1288
85°	358	165	232	615	358	397
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	14210.0	14210.0	14210.0	14210.0	14210.0	14210.0	14210.0	14210.0	14210.0	14210.0	14210.0
2.5°	14205.1	14287.4	14219.6	14205.1	14200.3	14214.8	14069.5	14026.0	14074.4	14219.6	14214.8
5°	14069.5	14190.6	14171.2	13967.9	13856.5	13977.6	13909.8	13919.5	14016.3	14118.0	14069.5
7.5°	13890.4	14040.5	13585.4	13009.3	12772.0	13072.2	13517.6	13866.2	13909.8	14074.4	14064.7
10°	13750.0	13885.6	12597.7	10636.9	8971.4	10288.3	12733.3	13585.4	13599.9	13827.5	13294.9
12.5°	13474.0	13280.4	10695.0	8337.2	8196.7	8419.5	10767.6	12960.8	13265.9	13420.8	11368.0
15°	13091.6	12515.4	8259.7	7286.5	7078.3	7315.6	8114.4	12418.6	13023.8	13169.0	9707.3
17.5°	12805.9	11716.6	7712.6	6453.8	5175.6	6158.5	7877.2	11958.6	12675.2	12442.8	10215.7
20°	12525.1	10912.9	6850.8	7020.3	8588.9	6986.4	6957.3	11067.8	12244.3	10859.6	11164.6
22.5°	12040.9	9194.1	5679.1	8371.0	8656.7	8288.7	5635.6	9504.0	11881.2	9804.1	9445.9
25°	11590.7	7620.6	6119.7	8690.6	9566.9	8569.5	5345.1	7533.5	11411.5	8768.1	8593.8
27.5°	11256.6	7189.7	7702.9	9993.0	12215.2	9305.5	7567.3	6957.3	10888.7	8293.6	9818.7
30°	10728.9	6589.4	7475.4	12200.7	12476.7	11982.8	7344.6	6691.0	10515.9	8777.7	10472.3
32.5°	10312.5	5853.4	8012.8	11508.4	10854.8	11450.3	7712.6	6240.8	10007.5	9237.7	10525.5
35°	9697.6	5548.4	9068.2	10065.6	7465.7	9746.0	8298.4	5732.4	9499.1	8535.7	10452.9
37.5°	9334.5	4565.6	10152.7	6826.6	6821.7	6836.3	9891.3	5054.6	8850.4	7247.8	10254.4
40°	8506.6	4938.4	9247.4	6240.8	5698.5	6371.5	9271.6	4125.0	8419.5	6405.4	9809.0
42.5°	8206.4	5543.6	7698.1	5127.2	3456.9	5441.9	7974.0	5228.9	7712.6	6691.0	8322.6
45°	7514.1	5398.3	5659.8	3243.8	5345.1	3461.7	5635.6	5170.8	7349.5	7054.1	6996.0
47.5°	6933.1	5064.3	5040.1	4982.0	5955.1	4836.7	5224.0	4856.1	6560.3	6860.5	6846.0
50°	6313.4	5238.6	4018.5	5238.6	4609.2	5311.2	4468.8	4570.4	6003.5	6434.4	6991.2
52.5°	5698.5	5480.6	2638.6	3916.8	3340.7	4052.4	3069.5	4512.3	5364.4	6047.1	5776.0
55°	5146.6	5446.7	3728.0	3364.9	4681.8	3205.1	3364.9	5001.3	4739.9	5441.9	4865.8
57.5°	4526.9	4599.5	3587.6	4105.6	4052.4	4309.0	3607.0	4434.9	4187.9	4841.6	4517.2
60°	3965.2	3423.0	2638.6	3209.9	2759.7	3568.2	2687.1	3655.4	3602.1	3805.5	4434.9
62.5°	3248.7	2769.4	2963.0	2348.2	2164.2	2314.3	2541.8	2648.3	2880.7	3224.5	3679.6
65°	2735.5	2188.4	2919.5	1496.0	1316.9	1752.6	2972.7	2338.5	2372.4	2919.5	3064.7
67.5°	2048.0	1612.2	1675.2	1200.7	1084.5	1176.5	2091.6	1810.7	1902.7	2159.3	2362.7
70°	1752.6	1433.1	1215.2	987.7	982.8	992.5	1312.1	1350.8	1617.1	1820.4	1956.0
72.5°	1462.1	1181.3	968.3	813.4	735.9	895.7	958.6	1113.6	1370.2	2164.2	1786.5
75°	1200.7	1365.3	784.3	668.1	595.5	653.6	769.8	1011.9	1099.0	1346.0	1462.1
77.5°	968.3	794.0	614.9	556.8	532.6	576.1	595.5	1055.5	861.8	1040.9	1234.6
80°	755.3	590.7	479.3	372.8	319.5	363.1	474.5	537.4	634.2	774.6	919.9
82.5°	542.3	450.3	334.1	271.1	232.4	266.3	314.7	377.6	430.9	532.6	643.9
85°	358.3	295.3	237.2	193.7	164.6	188.8	213.0	237.2	232.4	319.5	411.5
87.5°	179.1	159.8	159.8	140.4	116.2	130.7	145.2	125.9	67.8	140.4	251.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	14210.0	14210.0	14210.0	14210.0	14210.0	14210.0
2.5°	14214.8	14253.5	14243.8	14122.8	14132.5	14205.1
5°	14113.1	14234.2	14205.1	14050.2	14040.5	14069.5
7.5°	13624.1	13140.0	13851.7	13914.6	13861.4	13890.4
10°	11116.2	10791.8	11614.9	13125.4	13754.8	13750.0
12.5°	9978.4	10820.9	10143.1	11285.7	13454.7	13474.0
15°	11377.6	11784.3	11537.4	9876.8	13115.8	13091.6
17.5°	10651.4	9905.8	10748.2	10360.9	12684.9	12805.9
20°	9499.1	10627.2	9610.5	10845.1	11174.3	12525.1
22.5°	11527.7	11973.2	11077.5	10065.6	10114.0	12040.9
25°	11813.4	12539.6	11590.7	9039.2	9213.5	11590.7
27.5°	12147.5	12975.4	12074.8	9605.6	8671.2	11256.6
30°	12287.9	12820.4	12510.6	10341.6	8840.7	10728.9
32.5°	12016.7	11803.7	12292.7	10147.9	8724.5	10312.5
35°	10607.8	10448.1	11193.7	10414.2	8618.0	9697.6
37.5°	9000.4	9513.6	9828.4	10452.9	7862.7	9334.5
40°	8864.9	9746.0	9077.9	10147.9	7199.4	8506.6
42.5°	9073.1	9223.2	8893.9	9184.4	6652.3	8206.4
45°	8070.9	8075.7	8608.3	8085.4	6710.4	7514.1
47.5°	7025.1	7296.2	7543.1	7204.2	6662.0	6933.1
50°	6168.1	6797.5	6763.6	6802.4	6206.9	6313.4
52.5°	6168.1	5906.7	5974.5	6618.4	5921.2	5698.5
55°	5248.2	5151.4	5592.0	5698.5	5688.8	5146.6
57.5°	4657.6	5136.9	4812.5	4904.5	5112.7	4526.9
60°	4134.7	3989.4	4609.2	4299.3	4531.7	3965.2
62.5°	3229.3	3355.2	3573.1	4062.1	3786.1	3248.7
65°	2764.5	2958.2	3093.8	3398.8	3064.7	2735.5
67.5°	2604.8	2687.1	2648.3	3113.1	2633.8	2048.0
70°	2290.1	2551.5	2377.2	2333.6	2173.9	1752.6
72.5°	1907.6	1989.9	2173.9	1859.2	1680.0	1462.1
75°	1626.8	1704.2	1718.8	1607.4	1651.0	1200.7
77.5°	1292.7	1375.0	1365.3	1370.2	1365.3	968.3
80°	1016.7	1074.8	1074.8	1050.6	919.9	755.3
82.5°	765.0	823.1	837.6	760.1	682.7	542.3
85°	547.1	614.9	610.0	542.3	450.3	358.3
87.5°	353.4	430.9	440.6	348.6	266.3	179.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)