

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-LD5-22-W-ASY-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 (P34179)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-22-W-ASY-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER DISTRIBUTION

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

Summary

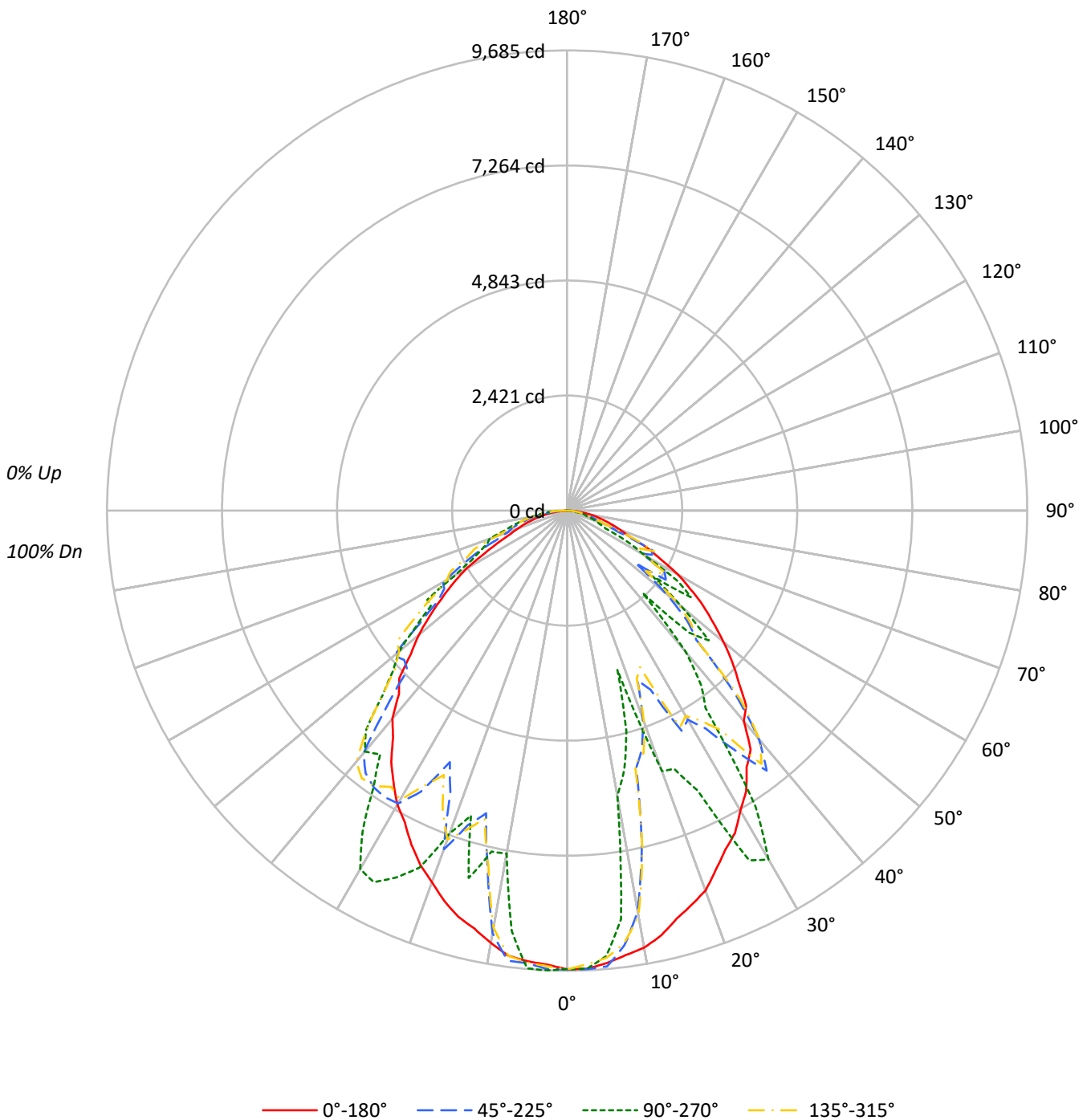
Lumens per Lamp: N/A
Luminaire Lumens: 19014.0 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.25 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 167.7
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					86			
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14172	14172	14172	14172
5°	14070	13741	14017	14115
10°	13894	8914	13742	10723
15°	13472	7101	13402	11822
20°	13233	8767	12936	10848
25°	12681	10018	12485	13131
30°	12267	13517	12023	13889
35°	11704	8444	11465	11818
40°	10960	6797	10848	11624
45°	10467	6797	10238	10270
50°	9652	6328	9178	9333
55°	8792	7043	8097	7750
60°	7742	4630	7033	6693
65°	6287	2519	5452	5657
70°	4941	2205	4559	5724
75°	4420	1631	4046	4667
80°	4051	1134	3401	3814
85°	3587	838	2327	3132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	878.6	4.6
10°-20°	2040.6	10.7
20°-30°	3037.3	16.0
30°-40°	3830.6	20.1
40°-50°	3469.4	18.2
50°-60°	2884.5	15.2
60°-70°	1742.7	9.2
70°-80°	864.3	4.5
80°-90°	266.0	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°	5956.5	31.3
0°-40°	9787.1	51.5
0°-60°	16141.0	84.9
0°-90°	19014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19014.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9655	9655	9655	9655	9655	
5°	9560	9415	9524	9672	9560	905
15°	8895	4810	8849	8007	8895	2516
25°	7875	6500	7754	8520	7875	3642
35°	6589	5073	6454	7099	6589	4140
45°	5106	3632	4994	5487	5106	3938
55°	3497	3181	3221	3500	3497	3112
65°	1859	895	1612	2010	1859	1826
75°	816	405	747	1158	816	875
85°	243	112	158	418	243	269
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°	9655.1	9655.1	9655.1	9655.1	9655.1	9655.1	9655.1	9655.1	9655.1	9655.1	9655.1
2.5°	9651.8	9707.7	9661.7	9651.8	9648.5	9658.4	9559.7	9530.1	9563.0	9661.7	9658.4
5°	9559.7	9641.9	9628.8	9490.6	9414.9	9497.2	9451.1	9457.7	9523.5	9592.6	9559.7
7.5°	9438.0	9540.0	9230.7	8839.3	8678.1	8882.0	9184.7	9421.5	9451.1	9563.0	9556.4
10°	9342.6	9434.7	8559.6	7227.3	6095.7	6990.5	8651.8	9230.7	9240.6	9395.2	9033.3
12.5°	9155.1	9023.5	7266.8	5664.8	5569.4	5720.7	7316.2	8806.4	9013.6	9118.9	7724.1
15°	8895.2	8503.7	5612.1	4950.9	4809.5	4970.6	5513.4	8437.9	8849.1	8947.8	6595.7
17.5°	8701.1	7960.9	5240.4	4385.1	3516.6	4184.4	5352.2	8125.4	8612.3	8454.4	6941.1
20°	8510.3	7414.8	4654.8	4770.0	5835.8	4746.9	4727.2	7520.1	8319.5	7378.7	7585.9
22.5°	8181.3	6247.0	3858.7	5687.8	5881.9	5631.9	3829.1	6457.6	8072.8	6661.5	6418.1
25°	7875.4	5177.9	4158.1	5904.9	6500.3	5822.7	3631.8	5118.7	7753.7	5957.5	5839.1
27.5°	7648.4	4885.1	5233.8	6789.8	8299.8	6322.7	5141.7	4727.2	7398.4	5635.2	6671.4
30°	7289.8	4477.2	5079.2	8289.9	8477.4	8141.9	4990.4	4546.3	7145.1	5964.1	7115.5
32.5°	7006.9	3977.2	5444.4	7819.5	7375.4	7780.0	5240.4	4240.3	6799.7	6276.6	7151.7
35°	6589.1	3769.9	6161.5	6839.2	5072.6	6622.0	5638.4	3894.9	6454.3	5799.6	7102.3
37.5°	6342.4	3102.1	6898.4	4638.4	4635.1	4645.0	6720.7	3434.4	6013.5	4924.6	6967.5
40°	5779.9	3355.4	6283.2	4240.3	3871.9	4329.2	6299.7	2802.8	5720.7	4352.2	6664.8
42.5°	5575.9	3766.6	5230.5	3483.7	2348.8	3697.6	5418.0	3552.8	5240.4	4546.3	5654.9
45°	5105.5	3667.9	3845.6	2204.1	3631.8	2352.1	3829.1	3513.3	4993.7	4793.0	4753.5
47.5°	4710.8	3441.0	3424.5	3385.0	4046.3	3286.3	3549.5	3299.5	4457.5	4661.4	4651.6
50°	4289.7	3559.4	2730.4	3559.4	3131.7	3608.7	3036.3	3105.4	4079.2	4371.9	4750.2
52.5°	3871.9	3723.9	1792.9	2661.3	2269.9	2753.4	2085.6	3065.9	3644.9	4108.8	3924.5
55°	3496.9	3700.8	2533.0	2286.3	3181.1	2177.7	2286.3	3398.2	3220.6	3697.6	3306.1
57.5°	3075.8	3125.2	2437.6	2789.6	2753.4	2927.8	2450.8	3013.3	2845.5	3289.6	3069.2
60°	2694.2	2325.8	1792.9	2181.0	1875.1	2424.5	1825.7	2483.7	2447.5	2585.7	3013.3
62.5°	2207.3	1881.7	2013.3	1595.5	1470.5	1572.4	1727.1	1799.4	1957.3	2190.9	2500.1
65°	1858.6	1486.9	1983.7	1016.5	894.8	1190.8	2019.8	1588.9	1611.9	1983.7	2082.3
67.5°	1391.5	1095.4	1138.2	815.8	736.9	799.4	1421.1	1230.3	1292.8	1467.2	1605.3
70°	1190.8	973.7	825.7	671.1	667.8	674.4	891.5	917.8	1098.7	1236.9	1329.0
72.5°	993.5	802.7	657.9	552.7	500.0	608.6	651.3	756.6	931.0	1470.5	1213.9
75°	815.8	927.7	532.9	454.0	404.6	444.1	523.1	687.5	746.7	914.5	993.5
77.5°	657.9	539.5	417.8	378.3	361.9	391.5	404.6	717.1	585.6	707.3	838.9
80°	513.2	401.3	325.7	253.3	217.1	246.7	322.4	365.1	430.9	526.3	625.0
82.5°	368.4	305.9	227.0	184.2	157.9	180.9	213.8	256.6	292.8	361.9	437.5
85°	243.4	200.7	161.2	131.6	111.8	128.3	144.7	161.2	157.9	217.1	279.6
87.5°	121.7	108.6	108.6	95.4	79.0	88.8	98.7	85.5	46.1	95.4	171.1
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°	9655.1	9655.1	9655.1	9655.1	9655.1	9655.1
2.5°	9658.4	9684.7	9678.1	9595.9	9602.5	9651.8
5°	9589.3	9671.5	9651.8	9546.5	9540.0	9559.7
7.5°	9257.0	8928.1	9411.7	9454.4	9418.2	9438.0
10°	7553.0	7332.6	7891.8	8918.2	9345.9	9342.6
12.5°	6779.9	7352.3	6891.8	7668.1	9141.9	9155.1
15°	7730.7	8007.0	7839.2	6710.9	8911.6	8895.2
17.5°	7237.2	6730.6	7303.0	7039.8	8618.9	8701.1
20°	6454.3	7220.8	6529.9	7368.8	7592.5	8510.3
22.5°	7832.6	8135.3	7526.7	6839.2	6872.1	8181.3
25°	8026.7	8520.2	7875.4	6141.8	6260.2	7875.4
27.5°	8253.7	8816.2	8204.4	6526.6	5891.7	7648.4
30°	8349.1	8711.0	8500.4	7026.7	6006.9	7289.8
32.5°	8164.9	8020.1	8352.4	6895.1	5927.9	7006.9
35°	7207.6	7099.0	7605.6	7076.0	5855.6	6589.1
37.5°	6115.4	6464.1	6678.0	7102.3	5342.4	6342.4
40°	6023.3	6622.0	6168.1	6895.1	4891.7	5779.9
42.5°	6164.8	6266.8	6043.1	6240.4	4520.0	5575.9
45°	5483.8	5487.1	5849.0	5493.7	4559.4	5105.5
47.5°	4773.3	4957.5	5125.3	4895.0	4526.5	4710.8
50°	4191.0	4618.7	4595.6	4621.9	4217.3	4289.7
52.5°	4191.0	4013.4	4059.4	4496.9	4023.2	3871.9
55°	3566.0	3500.2	3799.5	3871.9	3865.3	3496.9
57.5°	3164.6	3490.3	3269.9	3332.4	3473.9	3075.8
60°	2809.4	2710.7	3131.7	2921.2	3079.1	2694.2
62.5°	2194.2	2279.7	2427.8	2760.0	2572.5	2207.3
65°	1878.4	2010.0	2102.1	2309.3	2082.3	1858.6
67.5°	1769.8	1825.7	1799.4	2115.2	1789.6	1391.5
70°	1556.0	1733.6	1615.2	1585.6	1477.0	1190.8
72.5°	1296.1	1352.0	1477.0	1263.2	1141.5	993.5
75°	1105.3	1158.0	1167.8	1092.2	1121.8	815.8
77.5°	878.3	934.3	927.7	931.0	927.7	657.9
80°	690.8	730.3	730.3	713.9	625.0	513.2
82.5°	519.8	559.2	569.1	516.5	463.8	368.4
85°	371.7	417.8	414.5	368.4	305.9	243.4
87.5°	240.1	292.8	299.4	236.9	180.9	121.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)