

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-LD5-28-W-ASY-UNV-L835-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-LD5-28-W-ASY-UNV-L835-CD4-U
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

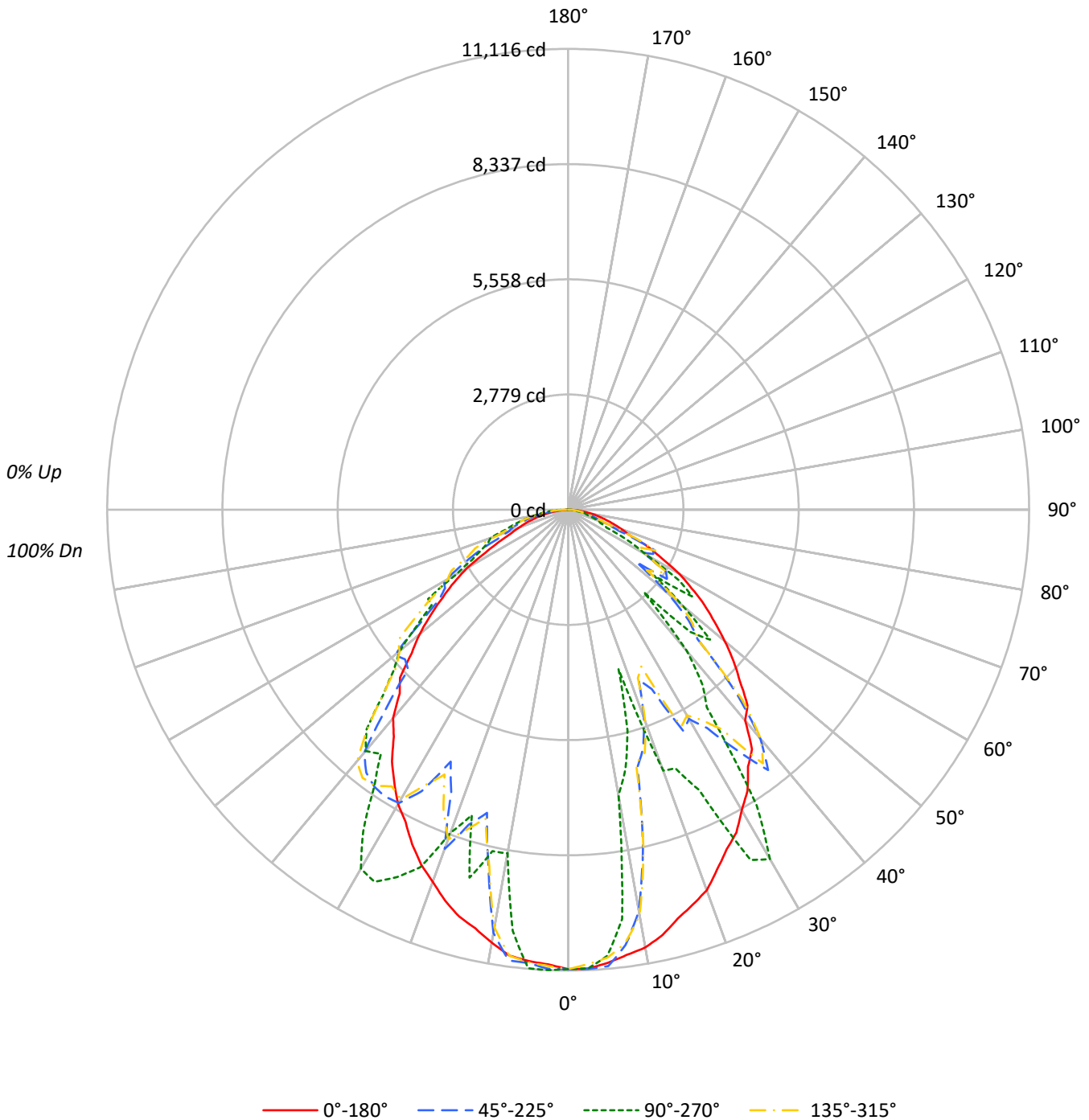
Lumens per Lamp: N/A
Luminaire Lumens: 21824.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.25 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 204
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°	16266	16266	16266	16266
5°	16149	15772	16088	16202
10°	15947	10231	15773	12307
15°	15463	8150	15383	13569
20°	15189	10063	14848	12451
25°	14555	11498	14330	15071
30°	14080	15514	13800	15942
35°	13434	9692	13159	13564
40°	12580	7801	12451	13342
45°	12014	7802	11751	11787
50°	11078	7264	10534	10713
55°	10091	8084	9294	8895
60°	8886	5314	8072	7682
65°	7216	2891	6258	6493
70°	5671	2531	5232	6570
75°	5074	1872	4644	5357
80°	4649	1301	3904	4377
85°	4117	962	2670	3594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1008.5	4.6
10°-20°	2342.1	10.7
20°-30°	3486.2	16.0
30°-40°	4396.7	20.1
40°-50°	3982.1	18.2
50°-60°	3310.8	15.2
60°-70°	2000.2	9.2
70°-80°	992.0	4.5
80°-90°	305.3	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°	6836.8	31.3
0°-40°	11233.5	51.5
0°-60°	18526.5	84.9
0°-90°	21824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21824.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11082	11082	11082	11082	11082	
5°	10972	10806	10931	11101	10972	###
15°	10210	5520	10157	9190	10210	2888
25°	9039	7461	8900	9779	9039	4180
35°	7563	5822	7408	8148	7563	4752
45°	5860	4168	5732	6298	5860	4520
55°	4014	3651	3696	4018	4014	3572
65°	2133	1027	1850	2307	2133	2096
75°	936	464	857	1329	936	1005
85°	279	128	181	480	279	309
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°	11082.0	11082.0	11082.0	11082.0	11082.0	11082.0	11082.0	11082.0	11082.0	11082.0	11082.0
2.5°	11078.2	11142.4	11089.5	11078.2	11074.4	11085.8	10972.5	10938.5	10976.3	11089.5	11085.8
5°	10972.5	11066.9	11051.8	10893.2	10806.3	10900.7	10847.9	10855.4	10930.9	11010.2	10972.5
7.5°	10832.8	10949.8	10594.9	10145.6	9960.6	10194.7	10542.0	10813.9	10847.9	10976.3	10968.7
10°	10723.3	10829.0	9824.6	8295.4	6996.6	8023.6	9930.4	10594.9	10606.2	10783.7	10368.4
12.5°	10508.1	10357.0	8340.7	6501.9	6392.4	6566.1	8397.4	10107.8	10345.7	10466.5	8865.6
15°	10209.8	9760.4	6441.5	5682.6	5520.2	5705.2	6328.2	9684.9	10156.9	10270.2	7570.5
17.5°	9987.0	9137.4	6014.9	5033.1	4036.3	4802.8	6143.2	9326.2	9885.0	9703.8	7966.9
20°	9768.0	8510.7	5342.8	5474.9	6698.3	5448.5	5425.8	8631.5	9549.0	8469.1	8707.0
22.5°	9390.4	7170.2	4429.0	6528.4	6751.1	6464.2	4395.0	7411.9	9265.8	7646.0	7366.6
25°	9039.3	5943.1	4772.6	6777.6	7461.0	6683.2	4168.5	5875.1	8899.6	6838.0	6702.0
27.5°	8778.7	5607.1	6007.3	7793.3	9526.3	7257.1	5901.6	5425.8	8491.8	6467.9	7657.3
30°	8367.2	5138.9	5829.8	9515.0	9730.2	9345.1	5727.9	5218.2	8201.0	6845.5	8167.1
32.5°	8042.5	4564.9	6249.0	8975.1	8465.3	8929.8	6014.9	4867.0	7804.6	7204.2	8208.6
35°	7562.9	4327.1	7072.1	7849.9	5822.3	7600.7	6471.7	4470.5	7408.1	6656.7	8152.0
37.5°	7279.7	3560.6	7917.9	5323.9	5320.1	5331.4	7714.0	3941.9	6902.2	5652.4	7997.1
40°	6634.1	3851.3	7211.8	4867.0	4444.1	4969.0	7230.7	3217.0	6566.1	4995.4	7649.8
42.5°	6400.0	4323.3	6003.5	3998.6	2695.9	4244.0	6218.7	4077.9	6014.9	5218.2	6490.6
45°	5860.0	4210.0	4413.9	2529.8	4168.5	2699.7	4395.0	4032.6	5731.7	5501.3	5456.0
47.5°	5406.9	3949.5	3930.6	3885.3	4644.2	3772.0	4074.1	3787.1	5116.2	5350.3	5339.0
50°	4923.6	4085.4	3133.9	4085.4	3594.6	4142.1	3485.1	3564.4	4682.0	5018.0	5452.3
52.5°	4444.1	4274.2	2057.8	3054.6	2605.3	3160.3	2393.9	3519.0	4183.6	4716.0	4504.5
55°	4013.7	4247.8	2907.4	2624.2	3651.2	2499.6	2624.2	3900.4	3696.5	4244.0	3794.7
57.5°	3530.4	3587.0	2797.9	3201.9	3160.3	3360.5	2813.0	3458.6	3266.1	3775.8	3522.8
60°	3092.4	2669.5	2057.8	2503.4	2152.2	2782.8	2095.6	2850.7	2809.2	2967.8	3458.6
62.5°	2533.6	2159.8	2310.8	1831.3	1687.8	1804.8	1982.3	2065.4	2246.6	2514.7	2869.6
65°	2133.3	1706.7	2276.8	1166.7	1027.0	1366.8	2318.3	1823.7	1850.1	2276.8	2390.1
67.5°	1597.2	1257.3	1306.4	936.4	845.8	917.5	1631.1	1412.1	1483.9	1684.0	1842.6
70°	1366.8	1117.6	947.7	770.3	766.5	774.0	1023.2	1053.4	1261.1	1419.7	1525.4
72.5°	1140.3	921.3	755.2	634.3	573.9	698.5	747.6	868.4	1068.6	1687.8	1393.3
75°	936.4	1064.8	611.7	521.1	464.4	509.7	600.4	789.1	857.1	1049.7	1140.3
77.5°	755.2	619.2	479.5	434.2	415.3	449.3	464.4	823.1	672.1	811.8	962.8
80°	589.0	460.6	373.8	290.7	249.2	283.2	370.0	419.1	494.6	604.1	717.4
82.5°	422.9	351.1	260.5	211.4	181.2	207.7	245.4	294.5	336.0	415.3	502.2
85°	279.4	230.3	185.0	151.0	128.4	147.3	166.1	185.0	181.2	249.2	320.9
87.5°	139.7	124.6	124.6	109.5	90.6	101.9	113.3	98.2	52.9	109.5	196.3
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°	11082.0	11082.0	11082.0	11082.0	11082.0	11082.0
2.5°	11085.8	11116.0	11108.4	11014.0	11021.6	11078.2
5°	11006.5	11100.9	11078.2	10957.4	10949.8	10972.5
7.5°	10625.1	10247.5	10802.6	10851.7	10810.1	10832.8
10°	8669.2	8416.3	9058.1	10236.2	10727.1	10723.3
12.5°	7781.9	8438.9	7910.3	8801.4	10493.0	10508.1
15°	8873.1	9190.3	8997.7	7702.6	10228.6	10209.8
17.5°	8306.8	7725.3	8382.3	8080.2	9892.6	9987.0
20°	7408.1	8287.9	7495.0	8457.8	8714.5	9768.0
22.5°	8990.2	9337.6	8639.0	7849.9	7887.6	9390.4
25°	9213.0	9779.3	9039.3	7049.4	7185.4	9039.3
27.5°	9473.5	10119.1	9416.8	7491.2	6762.5	8778.7
30°	9583.0	9998.3	9756.7	8065.1	6894.6	8367.2
32.5°	9371.5	9205.4	9586.8	7914.1	6804.0	8042.5
35°	8272.8	8148.2	8729.7	8121.7	6720.9	7562.9
37.5°	7019.2	7419.4	7664.9	8152.0	6131.9	7279.7
40°	6913.5	7600.7	7079.6	7914.1	5614.6	6634.1
42.5°	7075.9	7192.9	6936.1	7162.7	5188.0	6400.0
45°	6294.3	6298.0	6713.4	6305.6	5233.3	5860.0
47.5°	5478.7	5690.1	5882.7	5618.4	5195.5	5406.9
50°	4810.4	5301.2	5274.8	5305.0	4840.6	4923.6
52.5°	4810.4	4606.5	4659.3	5161.5	4617.8	4444.1
55°	4093.0	4017.5	4361.1	4444.1	4436.6	4013.7
57.5°	3632.3	4006.1	3753.1	3824.9	3987.2	3530.4
60°	3224.5	3111.3	3594.6	3352.9	3534.2	3092.4
62.5°	2518.5	2616.6	2786.5	3167.9	2952.7	2533.6
65°	2156.0	2307.0	2412.7	2650.6	2390.1	2133.3
67.5°	2031.4	2095.6	2065.4	2427.8	2054.0	1597.2
70°	1786.0	1989.8	1853.9	1819.9	1695.3	1366.8
72.5°	1487.7	1551.9	1695.3	1449.9	1310.2	1140.3
75°	1268.7	1329.1	1340.4	1253.6	1287.5	936.4
77.5°	1008.1	1072.3	1064.8	1068.6	1064.8	755.2
80°	792.9	838.2	838.2	819.3	717.4	589.0
82.5°	596.6	641.9	653.2	592.8	532.4	422.9
85°	426.7	479.5	475.8	422.9	351.1	279.4
87.5°	275.6	336.0	343.6	271.9	207.7	139.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)