

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-ASYWG-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 (P34184)
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-ASYWG-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

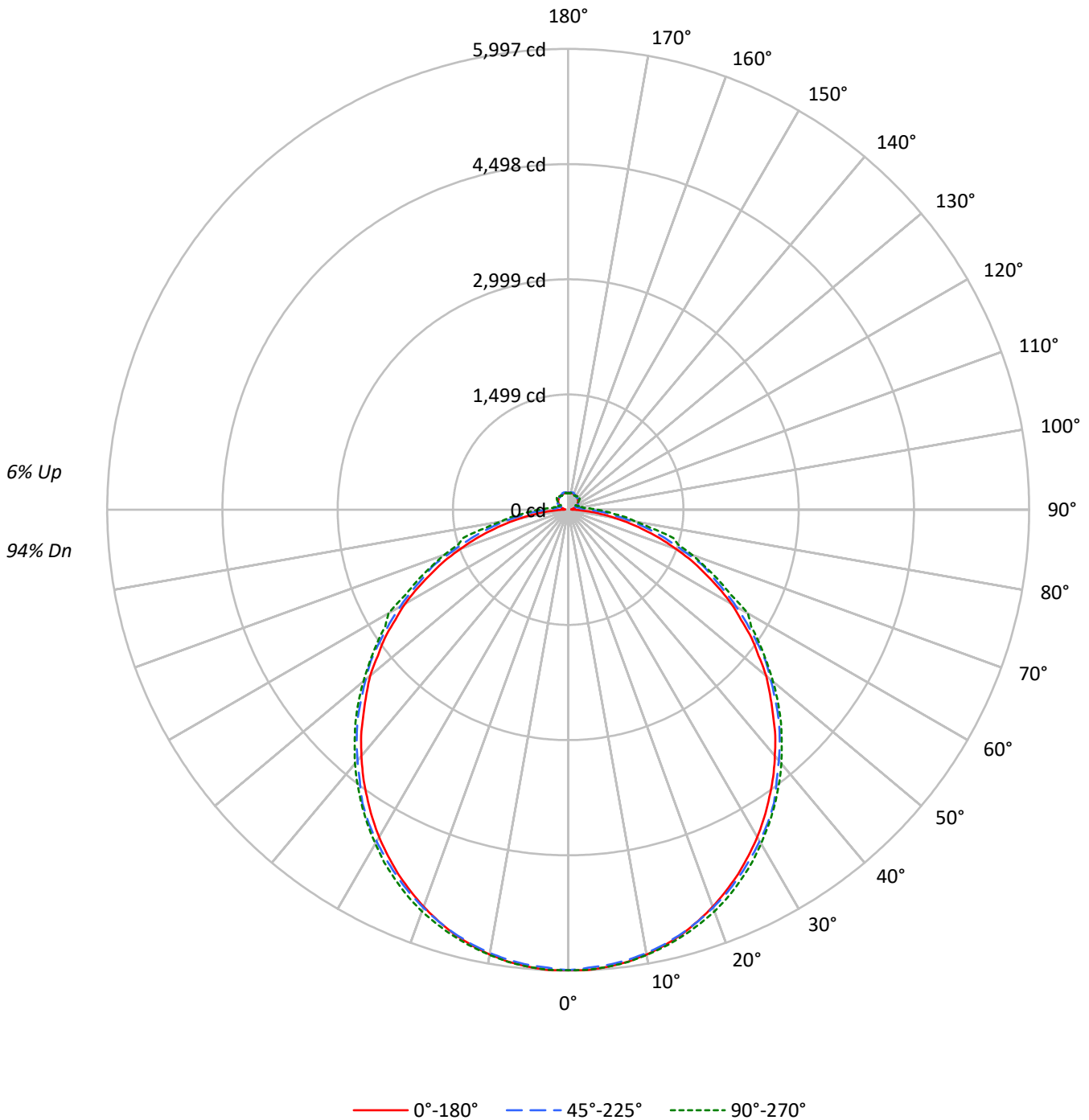
Lumens per Lamp: N/A
Luminaire Lumens: 18060.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	91	94	91	87	89	86	84	84	82	80	78
2	97	89	82	76	94	86	80	75	82	76	72	78	73	69	74	70	67	65
3	88	78	70	63	85	76	68	62	72	66	60	68	63	58	65	61	57	54
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	49	46
5	74	62	52	46	72	60	52	45	57	50	44	55	48	43	52	47	42	40
6	69	55	46	40	66	54	46	40	52	44	39	49	43	38	47	42	37	35
7	64	50	41	35	62	49	41	35	47	40	34	45	39	34	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	31	41	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8797	8797	8797
5°	8787	8697	8714
10°	8741	8601	8605
15°	8662	8481	8483
20°	8549	8347	8359
25°	8422	8201	8193
30°	8279	8045	8002
35°	8105	7885	7799
40°	7932	7617	7575
45°	7722	7408	7322
50°	7568	7124	7030
55°	7327	6815	6730
60°	7054	6450	6665
65°	6638	6075	6054
70°	6183	5643	5651
75°	5586	5150	5713
80°	4850	4656	4676
85°	4041	4266	4383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.5	3.1
10°-20°	1615.4	8.9
20°-30°	2430.2	13.5
30°-40°	2904.6	16.1
40°-50°	2979.9	16.5
50°-60°	2673.9	14.8
60°-70°	2054.5	11.4
70°-80°	1257.1	7.0
80°-90°	533.1	3.0
90°-100°	187.7	1.0
100°-110°	131.2	0.7
110°-120°	122.5	0.7
120°-130°	142.7	0.8
130°-140°	151.0	0.8
140°-150°	127.7	0.7
150°-160°	97.5	0.5
160°-170°	63.3	0.4
170°-180°	21.2	0.1
0°-30°	4612.1	25.5
0°-40°	7516.7	41.6
0°-60°	13170.5	72.9
0°-90°	17015.3	94.2
90°-120°	441.4	2.4
90°-150°	862.7	4.8
90°-180°	1045.0	5.8
0°-180°	18060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5994	5994	5994	5994	5994	
5°	5970	5970	5947	5970	5970	567
15°	5719	5723	5709	5739	5746	1612
25°	5230	5240	5267	5313	5316	2409
35°	4563	4622	4665	4675	4685	2856
45°	3767	3833	3876	3905	3912	2913
55°	2914	2941	2990	3033	3040	2597
65°	1963	1999	2072	2138	2151	1950
75°	1031	1087	1199	1269	1417	1098
85°	274	373	502	568	585	294
90°	53	149	284	360	377	41
95°	43	102	175	235	244	40
105°	83	79	119	188	175	86
115°	122	136	102	119	126	122
125°	155	155	185	159	132	139
135°	182	178	195	218	212	140
145°	198	205	195	205	215	125
155°	212	225	212	202	202	98
165°	218	225	231	225	218	62
175°	221	221	221	221	215	21
180°	218	218	218	218	218	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5993.5	5993.5	5993.5	5993.5	5993.5
2.5°	5996.8	5993.5	5967.1	5986.9	5993.5
5°	5970.4	5970.4	5947.2	5970.4	5970.4
7.5°	5934.0	5930.7	5910.9	5930.7	5937.3
10°	5877.9	5877.9	5858.0	5881.2	5884.5
12.5°	5805.2	5808.5	5792.0	5815.1	5821.7
15°	5719.3	5722.6	5709.4	5739.1	5745.7
17.5°	5613.5	5620.1	5616.8	5649.9	5659.8
20°	5497.9	5517.7	5511.1	5554.1	5564.0
22.5°	5369.0	5382.3	5395.5	5441.7	5448.3
25°	5230.3	5240.2	5266.6	5312.9	5316.2
27.5°	5078.3	5104.7	5127.8	5164.2	5177.4
30°	4919.7	4956.0	4982.5	5015.5	5018.8
32.5°	4747.9	4797.4	4830.5	4847.0	4856.9
35°	4562.9	4622.3	4665.3	4675.2	4685.1
37.5°	4381.1	4443.9	4453.8	4500.1	4503.4
40°	4182.9	4255.6	4262.2	4305.1	4315.1
42.5°	3988.0	4027.6	4073.9	4113.5	4110.2
45°	3766.6	3832.7	3875.6	3905.4	3912.0
47.5°	3561.7	3637.7	3650.9	3687.3	3700.5
50°	3363.5	3423.0	3439.5	3485.7	3479.1
52.5°	3122.3	3188.4	3237.9	3254.5	3254.5
55°	2914.1	2940.6	2990.1	3033.1	3039.7
57.5°	2666.3	2709.3	2755.6	2815.0	2821.6
60°	2454.9	2487.9	2524.3	2623.4	2699.4
62.5°	2207.1	2240.1	2293.0	2375.6	2375.6
65°	1962.6	1998.9	2071.6	2137.7	2150.9
67.5°	1741.2	1774.3	1896.5	1913.0	1922.9
70°	1490.1	1533.1	1625.6	1688.4	1711.5
72.5°	1262.1	1301.8	1400.9	1480.2	1493.4
75°	1030.9	1087.0	1199.4	1268.7	1417.4
77.5°	819.4	888.8	994.5	1077.1	1106.8
80°	614.5	690.5	819.4	882.2	895.4
82.5°	426.2	525.3	637.7	730.2	753.3
85°	274.2	373.4	502.2	568.3	584.8
87.5°	145.4	251.1	376.7	456.0	475.8
90°	52.9	148.7	284.1	360.1	376.7
92.5°	46.3	105.7	214.8	280.8	297.4
95°	43.0	102.4	175.1	234.6	244.5
97.5°	49.6	89.2	155.3	185.0	194.9
100°	59.5	79.3	148.7	178.4	188.3
102.5°	69.4	72.7	135.5	161.9	161.9
105°	82.6	79.3	118.9	188.3	175.1
107.5°	92.5	105.7	115.6	138.8	152.0
110°	105.7	115.6	102.4	132.2	135.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	115.6	128.9	102.4	128.9	128.9
115°	122.2	135.5	102.4	118.9	125.6
117.5°	132.2	138.8	128.9	115.6	115.6
120°	142.1	142.1	158.6	112.3	112.3
122.5°	148.7	148.7	168.5	125.6	112.3
125°	155.3	155.3	185.0	158.6	132.2
127.5°	161.9	161.9	191.6	181.7	165.2
130°	168.5	165.2	198.2	194.9	185.0
132.5°	175.1	171.8	198.2	204.8	198.2
135°	181.7	178.4	194.9	218.1	211.5
137.5°	185.0	185.0	191.6	221.4	221.4
140°	191.6	191.6	191.6	218.1	228.0
142.5°	194.9	198.2	194.9	211.5	221.4
145°	198.2	204.8	194.9	204.8	214.8
147.5°	201.5	211.5	194.9	204.8	204.8
150°	208.2	214.8	198.2	201.5	204.8
152.5°	208.2	221.4	204.8	201.5	201.5
155°	211.5	224.7	211.5	201.5	201.5
157.5°	214.8	224.7	214.8	204.8	201.5
160°	214.8	228.0	221.4	211.5	204.8
162.5°	218.1	228.0	228.0	218.1	211.5
165°	218.1	224.7	231.3	224.7	218.1
167.5°	218.1	224.7	231.3	228.0	221.4
170°	221.4	224.7	228.0	228.0	221.4
172.5°	221.4	221.4	224.7	224.7	221.4
175°	221.4	221.4	221.4	221.4	214.8
177.5°	221.4	221.4	221.4	218.1	211.5
180°	218.1	218.1	218.1	218.1	218.1

(END OF REPORT)