

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-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 (P34173)
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-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH OPEN WIDE DISTRIBUTION

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

Summary

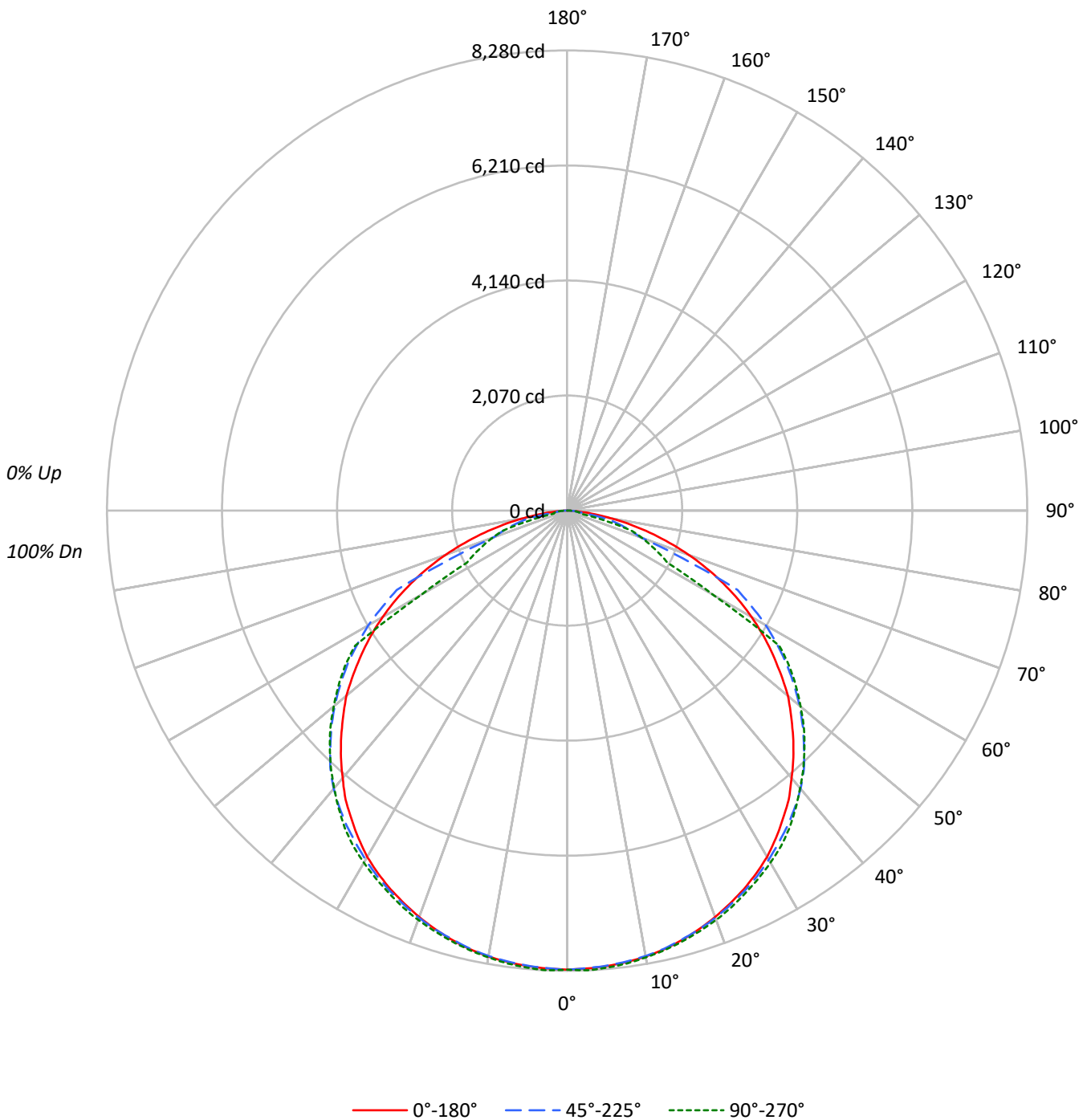
Lumens per Lamp: N/A
Luminaire Lumens: 23837.0 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12124	12124	12124
5°	12109	12022	12051
10°	12118	11949	11940
15°	12112	11864	11846
20°	12102	11813	11777
25°	12103	11756	11701
30°	12106	11713	11665
35°	12026	11692	11609
40°	11914	11682	11451
45°	11789	11519	11304
50°	11672	11311	11082
55°	11355	10999	10809
60°	11022	10557	7505
65°	10482	9926	5148
70°	9650	4854	4714
75°	8342	4237	2943
80°	6310	2523	1203
85°	3296	1285	1109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.6	3.3
10°-20°	2262.4	9.5
20°-30°	3488.3	14.6
30°-40°	4319.4	18.1
40°-50°	4598.1	19.3
50°-60°	4242.9	17.8
60°-70°	2716.6	11.4
70°-80°	1223.6	5.1
80°-90°	202.1	0.8
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°	6534.2	27.4
0°-40°	10853.7	45.5
0°-60°	19694.7	82.6
0°-90°	23837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23837.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8260	8260	8260	8260	8260	
5°	8227	8240	8221	8244	8257	783
15°	7997	8010	7987	8027	8023	2258
25°	7517	7536	7550	7599	7592	3467
35°	6770	6839	6918	6990	6974	4238
45°	5750	5869	6026	6066	6040	4437
55°	4517	4681	4826	4905	4882	4040
65°	3099	3247	3385	1868	1829	3060
75°	1540	1674	987	1013	730	1636
85°	224	168	151	161	148	326
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8260.2	8260.2	8260.2	8260.2	8260.2
2.5°	8247.0	8263.5	8240.4	8263.5	8279.9
5°	8227.3	8240.4	8220.7	8243.7	8256.9
7.5°	8194.4	8207.5	8184.5	8207.5	8220.7
10°	8148.3	8154.9	8138.5	8161.5	8164.8
12.5°	8082.5	8089.1	8076.0	8099.0	8102.3
15°	7997.0	8010.2	7987.1	8026.6	8023.3
17.5°	7898.3	7911.5	7901.6	7931.2	7934.5
20°	7783.2	7796.3	7799.6	7835.8	7839.1
22.5°	7654.9	7674.6	7677.9	7727.3	7724.0
25°	7516.7	7536.5	7549.6	7599.0	7592.4
27.5°	7365.4	7391.7	7411.5	7460.8	7460.8
30°	7194.4	7230.5	7253.6	7319.4	7316.1
32.5°	6990.4	7059.5	7085.8	7168.0	7161.5
35°	6770.0	6839.1	6918.0	6990.4	6973.9
37.5°	6552.9	6622.0	6730.5	6773.3	6753.5
40°	6283.1	6398.3	6536.4	6552.9	6523.3
42.5°	6026.5	6118.7	6306.2	6316.0	6289.7
45°	5750.2	5868.6	6026.5	6066.0	6039.7
47.5°	5464.0	5566.0	5750.2	5799.6	5779.8
50°	5187.7	5279.8	5460.7	5510.1	5483.8
52.5°	4848.9	4987.0	5141.6	5220.6	5191.0
55°	4516.6	4681.1	4825.8	4904.8	4881.8
57.5°	4184.4	4365.3	4473.9	4582.4	4526.5
60°	3835.7	4013.3	4131.7	4082.4	3039.6
62.5°	3473.8	3644.9	3743.6	2510.0	2036.3
65°	3098.8	3246.8	3385.0	1868.5	1829.0
67.5°	2717.2	2865.2	2253.4	1661.2	1625.1
70°	2325.7	2463.9	1398.1	1447.4	1427.7
72.5°	1931.0	2062.6	1200.7	1256.6	1230.3
75°	1539.5	1674.4	986.9	1013.2	730.3
77.5°	1174.4	1154.6	796.1	559.2	250.0
80°	799.4	532.9	444.1	233.6	230.3
82.5°	496.7	358.6	187.5	207.2	204.0
85°	223.7	167.8	151.3	161.2	148.0
87.5°	79.0	82.2	92.1	85.5	79.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)