

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-TWB-UNV-L840-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 (P34175)
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-TWB-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

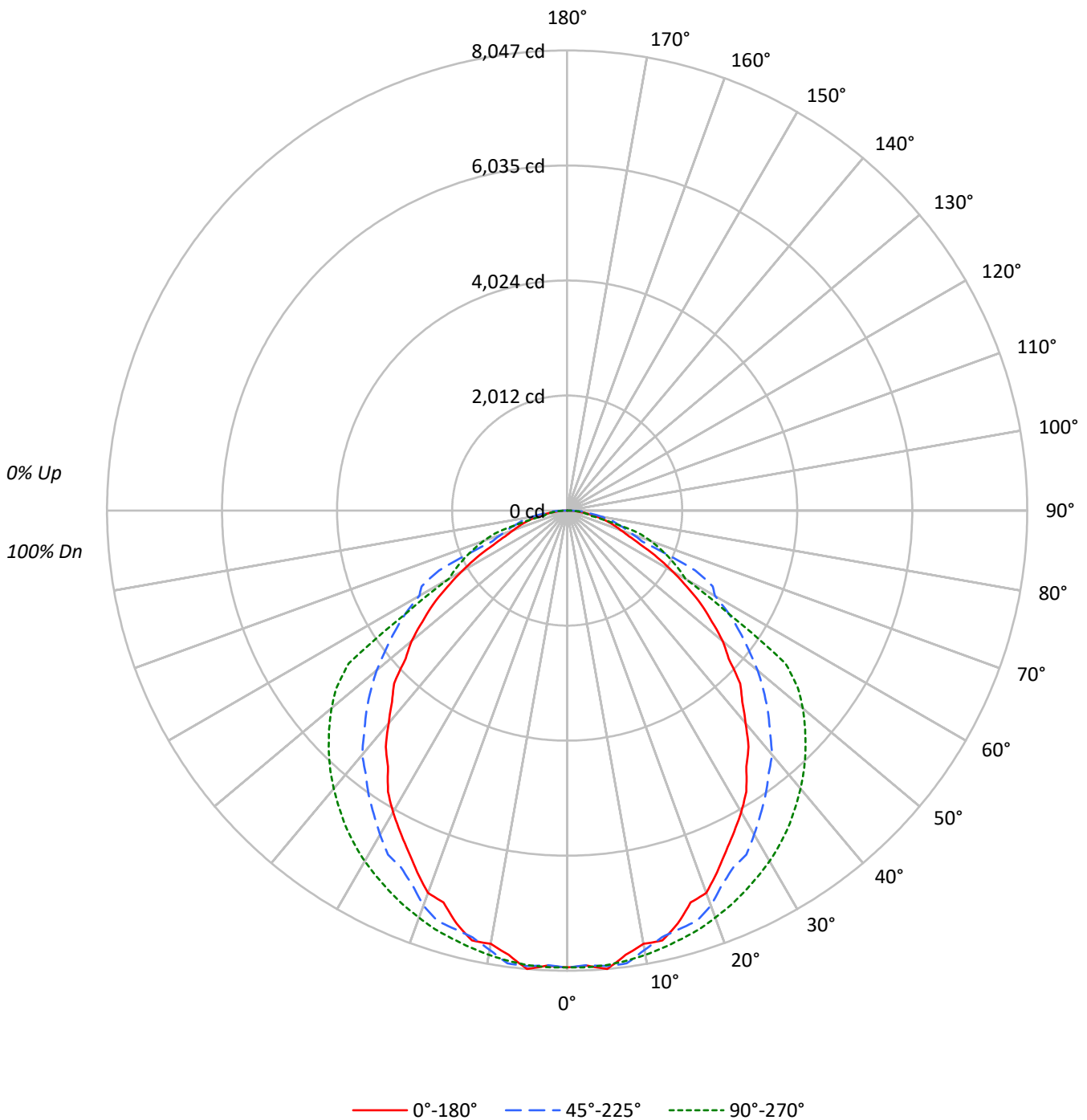
Lumens per Lamp: N/A
Luminaire Lumens: 20147.0 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11726	11726	11726
5°	11843	11692	11642
10°	11442	11453	11536
15°	11321	11252	11445
20°	11065	11133	11381
25°	10582	10711	11323
30°	10245	10563	11288
35°	9702	10233	11234
40°	9209	9962	11147
45°	8772	9493	11036
50°	7992	9008	10871
55°	7195	8387	10322
60°	6117	7623	5902
65°	4824	7250	5581
70°	4126	4276	5131
75°	3938	3891	3236
80°	3601	3439	1906
85°	2868	2583	1618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.8	3.8
10°-20°	2148.7	10.7
20°-30°	3207.3	15.9
30°-40°	3817.6	18.9
40°-50°	3860.0	19.2
50°-60°	3252.2	16.1
60°-70°	1879.2	9.3
70°-80°	927.6	4.6
80°-90°	297.5	1.5
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°	6112.8	30.3
0°-40°	9930.4	49.3
0°-60°	17042.6	84.6
0°-90°	20147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7989	7989	7989	7989	7989	
5°	8047	8065	7995	7956	7977	752
15°	7475	7591	7575	7779	7752	2099
25°	6572	6694	6879	7214	7347	3035
35°	5462	5684	6055	6569	6748	3436
45°	4279	4410	4966	5562	5897	3247
55°	2862	3087	3680	4388	4662	2540
65°	1426	1740	2472	1858	1983	1468
75°	727	894	906	998	803	764
85°	195	240	304	362	216	223
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7989.0	7989.0	7989.0	7989.0	7989.0
2.5°	7964.7	7973.8	7955.6	8001.2	7992.1
5°	8046.8	8065.1	7995.1	7955.6	7976.9
7.5°	7837.0	7876.5	7986.0	7934.3	7940.4
10°	7694.0	7700.1	7800.5	7961.7	7888.7
12.5°	7700.1	7688.0	7642.3	7919.1	7824.8
15°	7475.1	7590.7	7575.4	7779.2	7751.8
17.5°	7186.2	7298.7	7526.8	7639.3	7678.8
20°	7116.2	7076.7	7350.4	7459.9	7575.4
22.5°	6845.6	7003.7	7079.7	7323.0	7472.0
25°	6571.9	6693.5	6879.0	7213.6	7347.4
27.5°	6325.5	6456.3	6784.8	7110.2	7216.6
30°	6088.3	6210.0	6541.5	6979.4	7079.7
32.5°	5829.8	5981.9	6295.1	6821.2	6921.6
35°	5461.9	5683.9	6054.9	6568.8	6748.3
37.5°	5209.4	5355.4	5790.3	6301.2	6550.6
40°	4856.7	5090.8	5574.4	6094.4	6349.9
42.5°	4531.3	4762.4	5249.0	5835.9	6134.0
45°	4278.9	4409.6	4966.2	5562.2	5896.7
47.5°	3828.8	4160.3	4659.0	5270.3	5644.3
50°	3552.0	3780.1	4348.8	4990.5	5379.8
52.5°	3193.2	3448.6	3999.1	4680.3	5084.8
55°	2861.7	3086.7	3679.8	4388.3	4662.0
57.5°	2484.6	2773.5	3348.3	4056.9	3327.0
60°	2128.8	2417.7	2983.3	2740.1	2390.3
62.5°	1788.2	2043.6	2870.8	2061.9	2192.7
65°	1426.3	1739.5	2472.4	1858.1	1982.8
67.5°	1170.8	1389.8	1426.3	1663.5	1773.0
70°	994.4	1100.9	1231.7	1474.9	1554.0
72.5°	863.7	909.3	1070.5	1310.7	1322.9
75°	726.8	894.1	906.3	997.5	802.9
77.5°	580.9	720.7	784.6	580.9	410.6
80°	456.2	489.6	605.2	510.9	364.9
82.5°	316.3	361.9	419.7	441.0	301.1
85°	194.6	240.2	304.1	361.9	215.9
87.5°	82.1	130.8	209.8	279.8	118.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)