

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: **4ILED-LD5-11-W-WG-UNV-L850-CD1-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 (P34174)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-11-W-WG-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

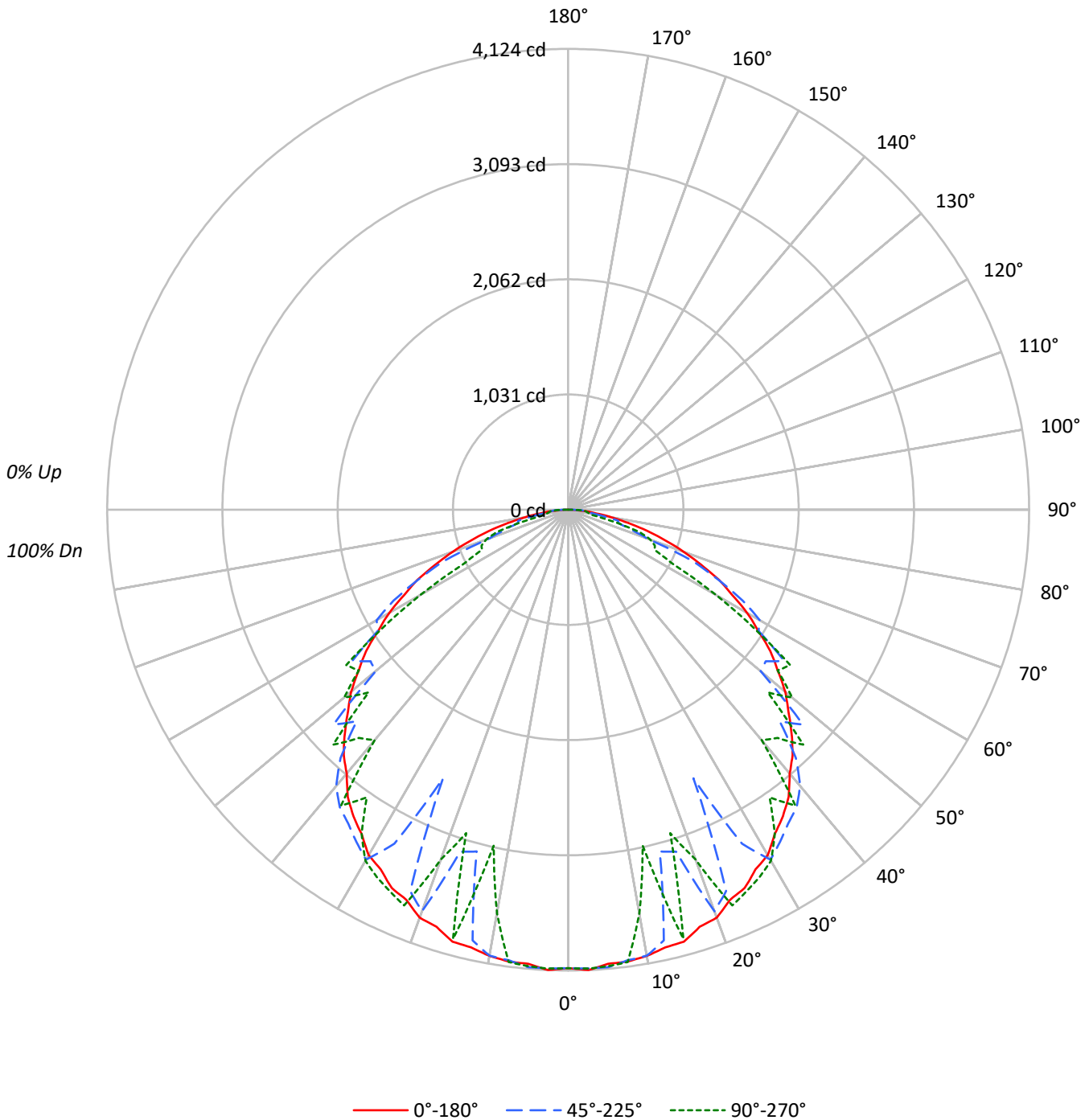
Lumens per Lamp: N/A
Luminaire Lumens: 11280.0 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 83.9
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	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12042	12042	12042
5°	11994	12008	11970
10°	12033	11883	10732
15°	12082	9384	11744
20°	12028	11549	10008
25°	11960	8225	11620
30°	11927	11624	11571
35°	11795	11525	10460
40°	11570	11461	9448
45°	11445	10148	11132
50°	11241	9220	10576
55°	10916	10625	10736
60°	10413	9979	7554
65°	9825	8508	4796
70°	8799	5074	5160
75°	7576	3900	3540
80°	5869	3219	2044
85°	4223	2473	2367



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.6	3.4
10°-20°	1037.5	9.2
20°-30°	1608.8	14.3
30°-40°	2062.5	18.3
40°-50°	2112.3	18.7
50°-60°	2002.9	17.8
60°-70°	1282.9	11.4
70°-80°	623.4	5.5
80°-90°	161.0	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°	3034.9	26.9
0°-40°	5097.5	45.2
0°-60°	9212.7	81.7
0°-90°	11280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4102	4102	4102	4102	4102	
5°	4079	4091	4109	4119	4101	389
15°	4002	4002	3166	3724	3977	1124
25°	3735	3227	2652	3793	3770	1717
35°	3349	3370	3430	3341	3142	2092
45°	2826	2831	2676	2694	2974	2178
55°	2209	2278	2357	2273	2424	1963
65°	1490	1456	1474	957	852	1460
75°	730	816	466	564	439	773
85°	161	142	153	161	158	183
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4102.2	4102.2	4102.2	4102.2	4102.2
2.5°	4123.6	4126.9	4108.8	4102.2	4110.5
5°	4079.2	4090.7	4108.8	4118.7	4100.6
7.5°	4077.6	4082.5	4067.7	4122.0	4082.5
10°	4054.5	4082.5	4052.9	3909.8	3669.6
12.5°	4011.8	4016.7	3949.3	2845.6	3079.1
15°	4001.9	4001.9	3166.3	3723.9	3977.2
17.5°	3913.1	3934.5	3209.1	3911.4	3034.7
20°	3885.1	3872.0	3824.3	2769.9	3330.8
22.5°	3779.8	3689.4	3692.7	3848.9	3834.1
25°	3735.4	3227.2	2651.5	3793.0	3770.0
27.5°	3630.2	2705.8	3368.6	3710.8	3705.8
30°	3569.3	2814.3	3617.0	3643.3	3628.5
32.5°	3441.0	3230.5	3526.5	3582.5	3439.4
35°	3348.9	3370.3	3429.5	3340.7	3141.6
37.5°	3238.7	3092.3	3355.5	3046.2	3339.0
40°	3082.4	2409.7	3228.8	3268.3	2691.0
42.5°	2972.2	2358.7	3015.0	2536.3	2771.6
45°	2825.8	2830.8	2676.2	2694.3	2973.9
47.5°	2672.9	2735.4	2847.2	2862.0	2421.2
50°	2534.7	2595.6	2246.9	2426.1	2616.9
52.5°	2362.0	2447.5	2228.8	2505.1	2362.0
55°	2209.0	2278.1	2357.1	2273.2	2424.5
57.5°	2013.3	2123.5	2018.2	2232.1	1970.5
60°	1850.4	1848.8	1978.7	1988.6	1529.7
62.5°	1654.7	1641.6	1760.0	1334.0	1059.3
65°	1490.2	1455.7	1473.8	957.3	852.0
67.5°	1284.6	1139.9	1213.9	799.4	838.9
70°	1095.5	1088.9	745.1	554.3	781.3
72.5°	908.0	988.6	587.2	692.5	676.0
75°	730.3	815.8	465.5	564.2	439.2
77.5°	547.7	592.1	458.9	345.4	213.8
80°	396.4	279.6	292.8	195.7	195.7
82.5°	256.6	230.3	171.1	182.6	172.7
85°	161.2	141.5	153.0	161.2	157.9
87.5°	55.9	97.0	121.7	118.4	108.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)