

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-LD5-9-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-LD5-9-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

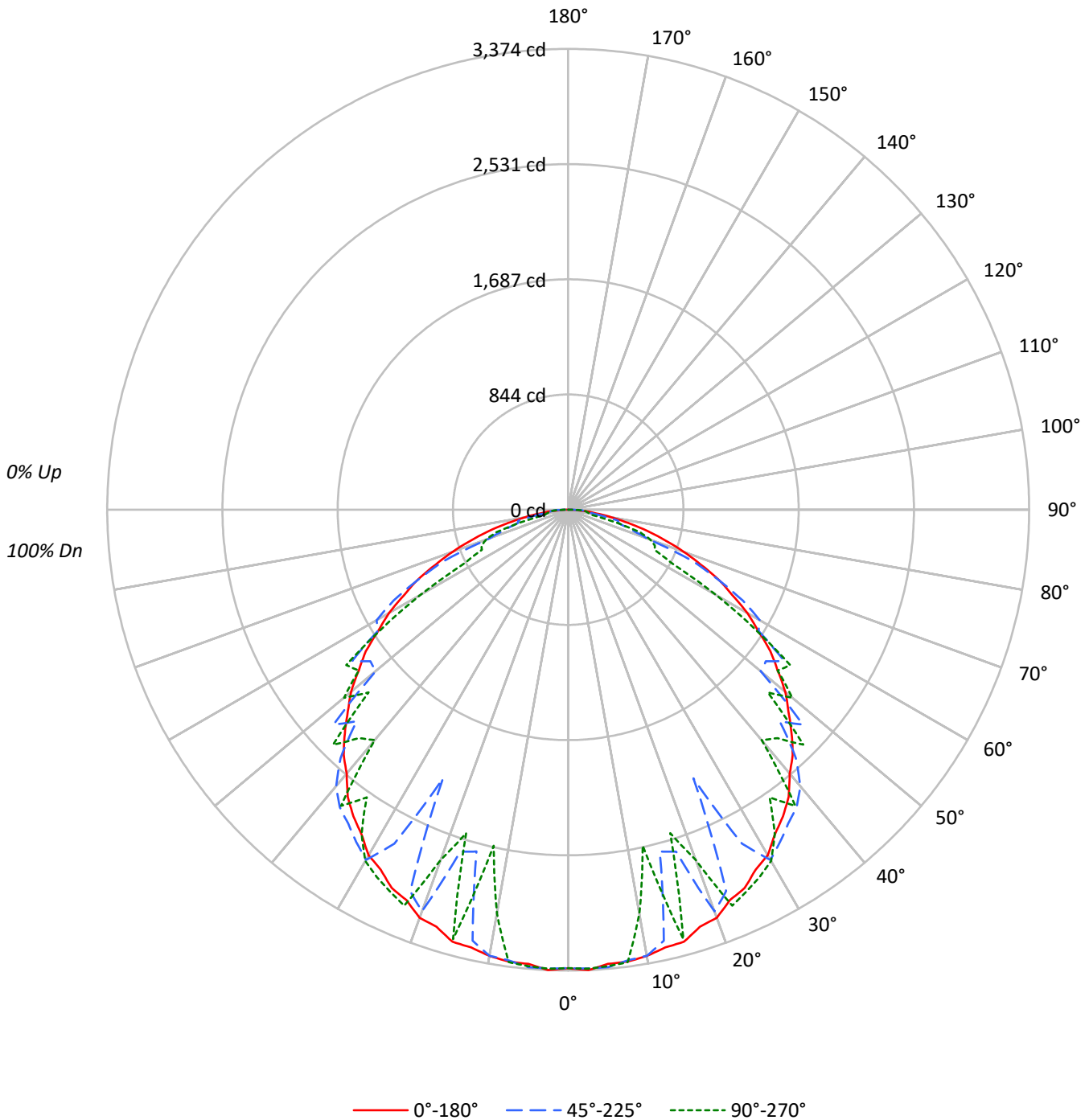
Lumens per Lamp: N/A
Luminaire Lumens: 9230.0 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 65.7
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	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°	9854	9854	9854
5°	9815	9826	9794
10°	9846	9723	8782
15°	9886	7679	9610
20°	9842	9450	8189
25°	9787	6730	9508
30°	9759	9512	9468
35°	9652	9431	8559
40°	9467	9378	7730
45°	9366	8304	9109
50°	9198	7544	8654
55°	8933	8694	8785
60°	8521	8165	6181
65°	8039	6961	3925
70°	7199	4152	4222
75°	6200	3191	2897
80°	4803	2634	1673
85°	3455	2024	1937



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.0	3.4
10°-20°	849.0	9.2
20°-30°	1316.4	14.3
30°-40°	1687.7	18.3
40°-50°	1728.4	18.7
50°-60°	1638.9	17.8
60°-70°	1049.8	11.4
70°-80°	510.1	5.5
80°-90°	131.7	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°	2483.4	26.9
0°-40°	4171.1	45.2
0°-60°	7538.4	81.7
0°-90°	9230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3357	3357	3357	3357	3357	
5°	3338	3347	3362	3370	3355	319
15°	3275	3275	2591	3047	3254	920
25°	3057	2641	2170	3104	3085	1405
35°	2740	2758	2806	2734	2571	1712
45°	2312	2316	2190	2205	2433	1782
55°	1808	1864	1929	1860	1984	1606
65°	1219	1191	1206	783	697	1195
75°	598	668	381	462	359	632
85°	132	116	125	132	129	150
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3356.7	3356.7	3356.7	3356.7	3356.7
2.5°	3374.2	3376.9	3362.1	3356.7	3363.4
5°	3337.9	3347.3	3362.1	3370.2	3355.4
7.5°	3336.5	3340.6	3328.4	3372.9	3340.6
10°	3317.7	3340.6	3316.3	3199.2	3002.7
12.5°	3282.7	3286.7	3231.5	2328.4	2519.5
15°	3274.6	3274.6	2590.9	3047.1	3254.4
17.5°	3201.9	3219.4	2625.9	3200.6	2483.2
20°	3179.0	3168.3	3129.2	2266.5	2725.5
22.5°	3092.9	3018.9	3021.6	3149.4	3137.3
25°	3056.6	2640.7	2169.6	3103.7	3084.8
27.5°	2970.4	2214.0	2756.4	3036.4	3032.3
30°	2920.6	2302.9	2959.7	2981.2	2969.1
32.5°	2815.6	2643.4	2885.6	2931.4	2814.3
35°	2740.3	2757.8	2806.2	2733.5	2570.7
37.5°	2650.1	2530.3	2745.7	2492.6	2732.2
40°	2522.2	1971.8	2642.0	2674.3	2201.9
42.5°	2432.1	1930.0	2467.1	2075.4	2267.9
45°	2312.3	2316.3	2189.8	2204.6	2433.4
47.5°	2187.1	2238.3	2329.8	2341.9	1981.2
50°	2074.1	2123.9	1838.5	1985.2	2141.3
52.5°	1932.7	2002.7	1823.7	2049.8	1932.7
55°	1807.6	1864.1	1928.7	1860.1	1983.9
57.5°	1647.4	1737.6	1651.4	1826.4	1612.4
60°	1514.2	1512.8	1619.1	1627.2	1251.7
62.5°	1354.0	1343.2	1440.1	1091.5	866.8
65°	1219.4	1191.1	1205.9	783.3	697.2
67.5°	1051.2	932.7	993.3	654.1	686.4
70°	896.4	891.0	609.7	453.6	639.3
72.5°	742.9	808.9	480.5	566.6	553.2
75°	597.6	667.6	380.9	461.6	359.4
77.5°	448.2	484.5	375.5	282.6	175.0
80°	324.4	228.8	239.6	160.2	160.2
82.5°	210.0	188.4	140.0	149.4	141.3
85°	131.9	115.7	125.2	131.9	129.2
87.5°	45.8	79.4	99.6	96.9	88.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)