

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-L840-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-L840-CD1-U
Description: Metalux 4' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

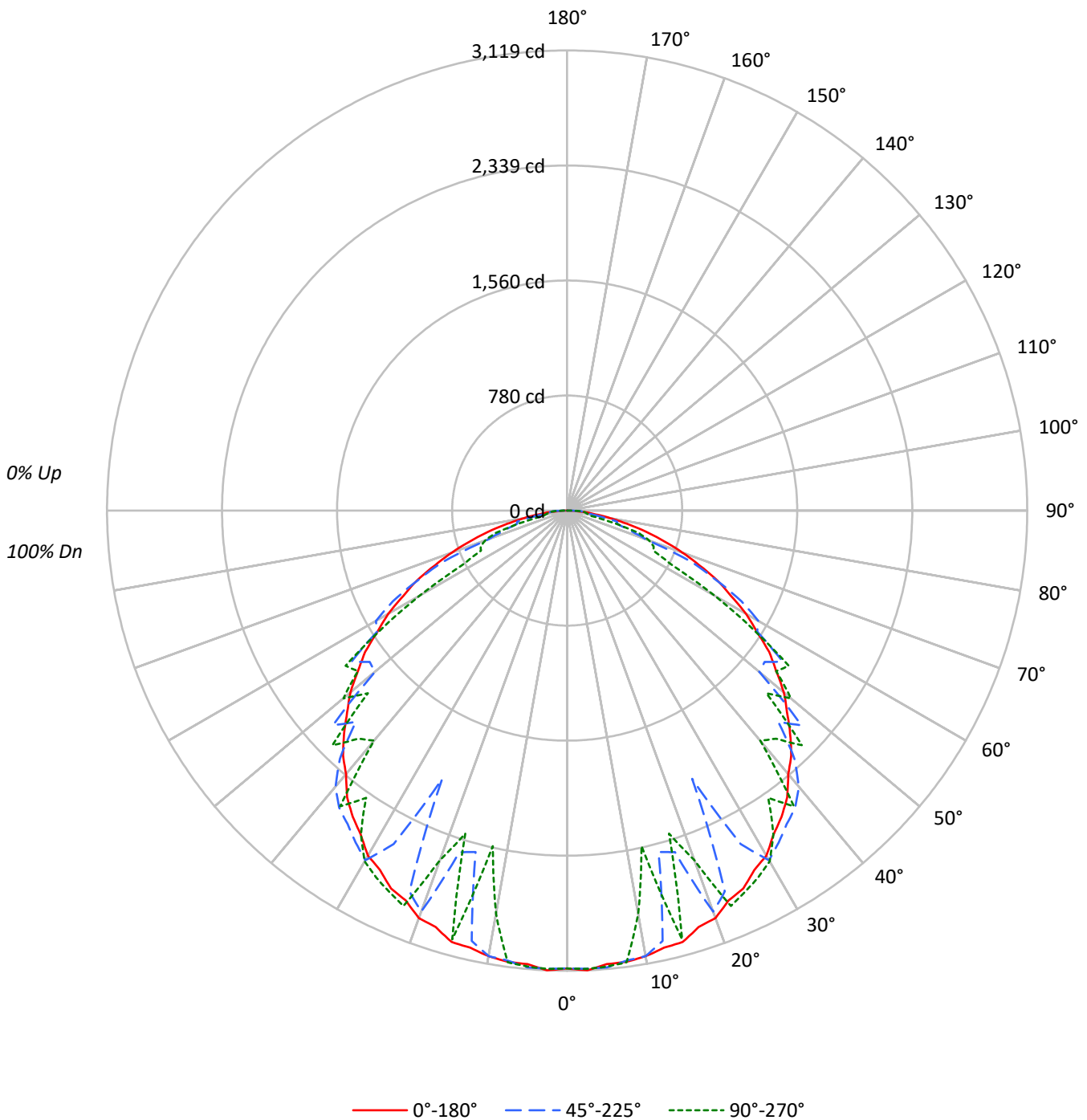
Lumens per Lamp: N/A
Luminaire Lumens: 8533.0 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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°	9110	9110	9110
5°	9073	9084	9055
10°	9103	8989	8119
15°	9139	7099	8884
20°	9099	8736	7571
25°	9048	6222	8790
30°	9022	8794	8753
35°	8922	8718	7913
40°	8752	8670	7147
45°	8658	7677	8421
50°	8503	6974	8001
55°	8258	8037	8122
60°	7877	7549	5714
65°	7432	6436	3628
70°	6656	3838	3903
75°	5732	2950	2678
80°	4440	2435	1547
85°	3193	1870	1791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.0	3.4
10°-20°	784.9	9.2
20°-30°	1217.0	14.3
30°-40°	1560.3	18.3
40°-50°	1597.9	18.7
50°-60°	1515.2	17.8
60°-70°	970.5	11.4
70°-80°	471.6	5.5
80°-90°	121.8	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°	2295.8	26.9
0°-40°	3856.1	45.2
0°-60°	6969.1	81.7
0°-90°	8533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8533.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3103	3103	3103	3103	3103	
5°	3086	3094	3108	3116	3102	295
15°	3027	3027	2395	2817	3009	850
25°	2826	2441	2006	2869	2852	1299
35°	2533	2550	2594	2527	2377	1582
45°	2138	2141	2024	2038	2250	1647
55°	1671	1723	1783	1720	1834	1485
65°	1127	1101	1115	724	644	1104
75°	552	617	352	427	332	585
85°	122	107	116	122	120	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3103.2	3103.2	3103.2	3103.2	3103.2
2.5°	3119.4	3121.9	3108.2	3103.2	3109.4
5°	3085.8	3094.5	3108.2	3115.7	3102.0
7.5°	3084.6	3088.3	3077.1	3118.2	3088.3
10°	3067.1	3088.3	3065.9	2957.6	2776.0
12.5°	3034.8	3038.5	2987.5	2152.6	2329.3
15°	3027.3	3027.3	2395.2	2817.0	3008.7
17.5°	2960.1	2976.3	2427.6	2958.9	2295.7
20°	2939.0	2929.0	2892.9	2095.4	2519.7
22.5°	2859.3	2790.9	2793.4	2911.6	2900.4
25°	2825.8	2441.3	2005.8	2869.3	2851.9
27.5°	2746.1	2046.8	2548.3	2807.1	2803.4
30°	2700.1	2129.0	2736.2	2756.1	2744.9
32.5°	2603.0	2443.8	2667.7	2710.0	2601.8
35°	2533.3	2549.5	2594.3	2527.1	2376.6
37.5°	2450.0	2339.2	2538.3	2304.4	2525.9
40°	2331.8	1822.9	2442.5	2472.4	2035.6
42.5°	2248.4	1784.3	2280.8	1918.7	2096.6
45°	2137.7	2141.4	2024.4	2038.1	2249.7
47.5°	2021.9	2069.2	2153.8	2165.0	1831.6
50°	1917.4	1963.5	1699.7	1835.3	1979.6
52.5°	1786.8	1851.5	1686.0	1895.0	1786.8
55°	1671.1	1723.3	1783.0	1719.6	1834.1
57.5°	1523.0	1606.4	1526.7	1688.5	1490.6
60°	1399.8	1398.6	1496.9	1504.3	1157.2
62.5°	1251.7	1241.8	1331.4	1009.1	801.3
65°	1127.3	1101.2	1114.9	724.2	644.5
67.5°	971.8	862.3	918.3	604.7	634.6
70°	828.7	823.7	563.7	419.3	591.0
72.5°	686.8	747.8	444.2	523.8	511.4
75°	552.5	617.2	352.1	426.8	332.2
77.5°	414.3	447.9	347.2	261.3	161.8
80°	299.9	211.5	221.5	148.1	148.1
82.5°	194.1	174.2	129.4	138.1	130.6
85°	121.9	107.0	115.7	121.9	119.5
87.5°	42.3	73.4	92.1	89.6	82.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)