

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-LD5-32-W-WG-UNV-L850-CD4-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: 8ILED-LD5-32-W-WG-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

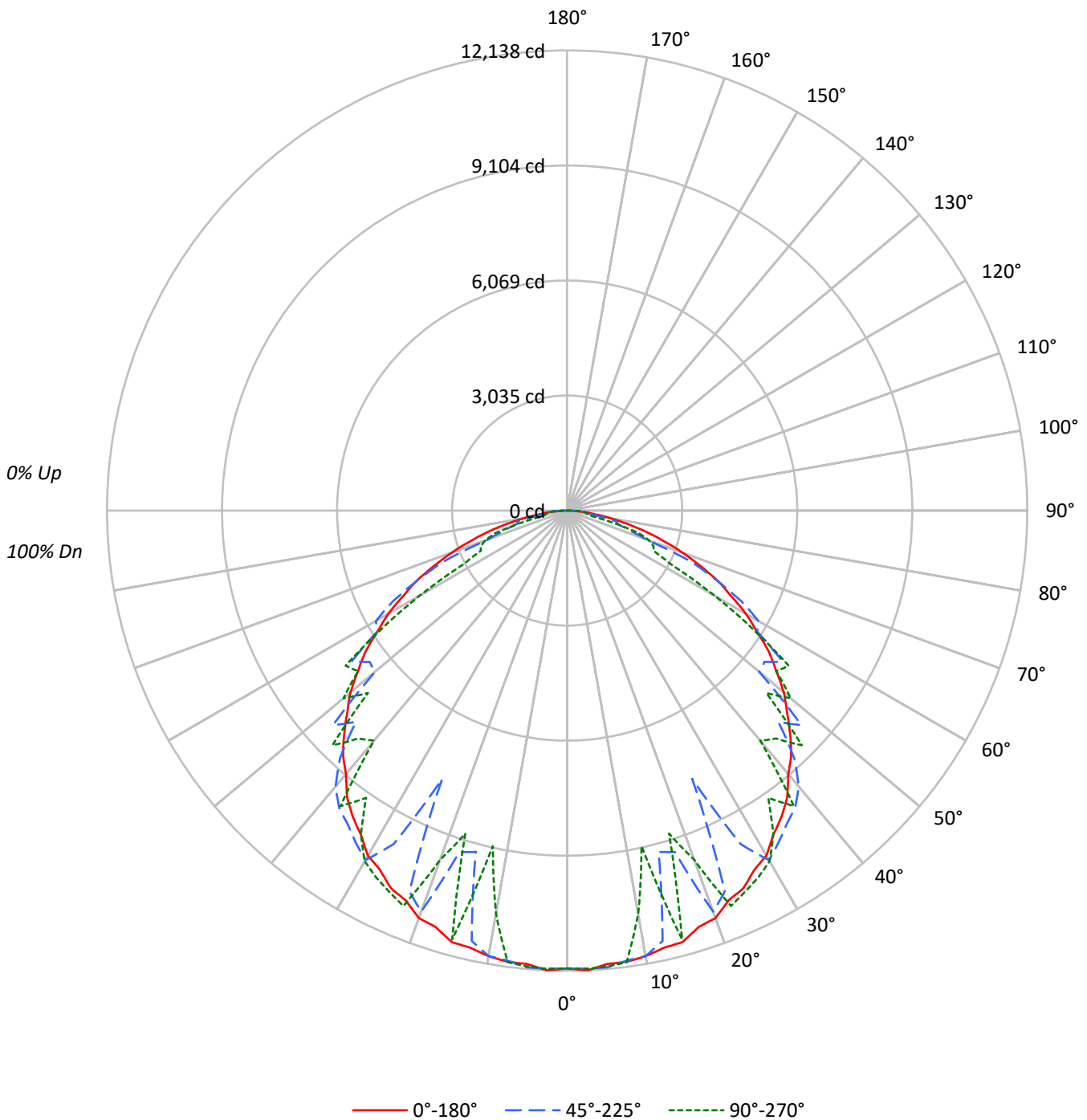
Lumens per Lamp: N/A
Luminaire Lumens: 33203.0 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 253.2
Input Voltage (V):
Input Current (Ain): 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°	17724	17724	17724
5°	17672	17687	17616
10°	17749	17515	15796
15°	17840	13844	17285
20°	17782	17050	14730
25°	17704	12153	17102
30°	17679	17192	17030
35°	17510	17061	15394
40°	17205	16985	13904
45°	17053	15057	16384
50°	16787	13699	15566
55°	16348	15813	15801
60°	15651	14882	11118
65°	14837	12721	7059
70°	13379	7614	7594
75°	11648	5883	5210
80°	9210	4897	3009
85°	6992	3825	3484



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1143.8	3.4
10°-20°	3054.0	9.2
20°-30°	4735.6	14.3
30°-40°	6071.2	18.3
40°-50°	6217.5	18.7
50°-60°	5895.7	17.8
60°-70°	3776.3	11.4
70°-80°	1835.0	5.5
80°-90°	473.9	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°	8933.4	26.9
0°-40°	15004.6	45.2
0°-60°	27117.8	81.7
0°-90°	33203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12075	12075	12075	12075	12075	
5°	12007	12041	12094	12124	12070	###
15°	11780	11780	9320	10962	11707	3308
25°	10995	9499	7805	11165	11097	5054
35°	9858	9920	10095	9833	9248	6157
45°	8318	8332	7877	7931	8754	6411
55°	6502	6706	6938	6691	7137	5777
65°	4386	4285	4338	2818	2508	4298
75°	2150	2402	1370	1661	1293	2274
85°	474	416	450	474	465	538
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12075.1	12075.1	12075.1	12075.1	12075.1
2.5°	12138.0	12147.7	12094.4	12075.1	12099.3
5°	12007.3	12041.2	12094.4	12123.5	12070.2
7.5°	12002.4	12017.0	11973.4	12133.2	12017.0
10°	11934.6	12017.0	11929.8	11508.6	10801.7
12.5°	11808.8	11823.3	11624.8	8376.0	9063.6
15°	11779.7	11779.7	9320.2	10961.5	11707.1
17.5°	11518.3	11581.2	9446.0	11513.4	8932.8
20°	11436.0	11397.2	11256.8	8153.3	9804.3
22.5°	11126.1	10859.8	10869.5	11329.4	11285.9
25°	10995.4	9499.3	7804.7	11164.8	11097.0
27.5°	10685.5	7964.5	9915.7	10922.7	10908.2
30°	10506.4	8284.0	10646.8	10724.2	10680.7
32.5°	10128.7	9509.0	10380.5	10545.1	10123.9
35°	9857.6	9920.5	10094.8	9833.4	9247.5
37.5°	9533.2	9102.3	9876.9	8966.7	9828.5
40°	9073.2	7093.0	9504.1	9620.3	7920.9
42.5°	8748.8	6942.9	8874.7	7465.8	8158.2
45°	8317.9	8332.5	7877.3	7930.6	8753.7
47.5°	7867.7	8051.6	8380.9	8424.5	7126.9
50°	7461.0	7640.1	6613.7	7141.4	7703.1
52.5°	6952.6	7204.4	6560.4	7373.8	6952.6
55°	6502.3	6705.7	6938.1	6691.1	7136.6
57.5°	5926.2	6250.6	5940.7	6570.1	5800.3
60°	5446.8	5442.0	5824.5	5853.5	4502.7
62.5°	4870.7	4832.0	5180.6	3926.6	3118.0
65°	4386.5	4284.9	4338.1	2817.8	2508.0
67.5°	3781.3	3355.3	3573.1	2353.0	2469.2
70°	3224.5	3205.2	2193.3	1631.6	2299.8
72.5°	2672.6	2909.8	1728.5	2038.3	1989.9
75°	2149.7	2401.5	1370.2	1660.7	1292.7
77.5°	1612.3	1743.0	1350.8	1016.7	629.4
80°	1166.8	823.1	861.8	576.2	576.2
82.5°	755.3	677.8	503.5	537.4	508.4
85°	474.5	416.4	450.3	474.5	464.8
87.5°	164.6	285.7	358.3	348.6	319.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)