

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-LD5-28-W-FLWG-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 (P34182)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-28-W-FLWG-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

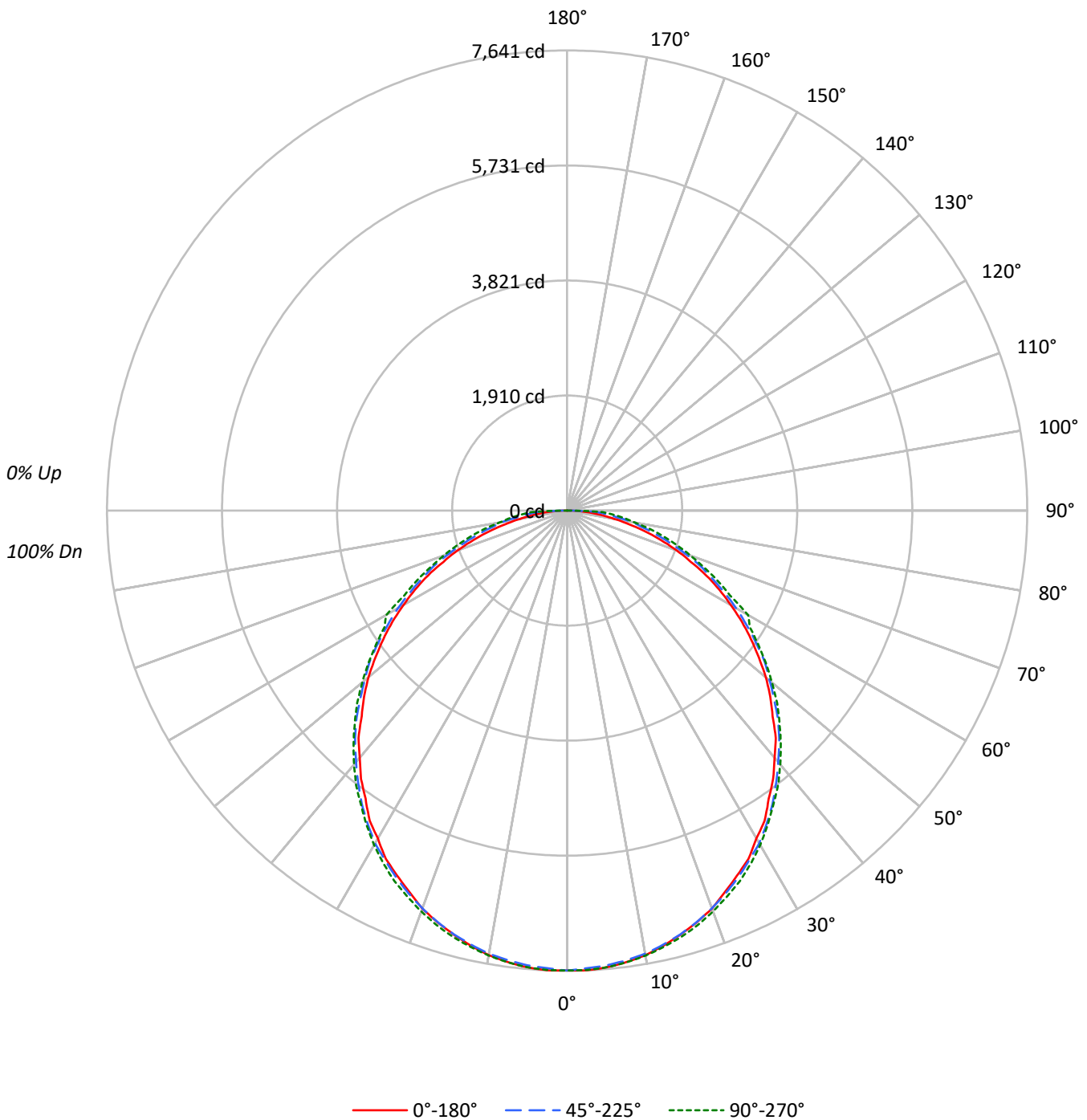
Lumens per Lamp: N/A
Luminaire Lumens: 21717.0 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 204
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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11209	11209	11209
5°	11203	11083	11109
10°	11146	10967	10972
15°	11036	10817	10820
20°	10935	10645	10640
25°	10760	10464	10459
30°	10579	10300	10223
35°	10368	10048	9932
40°	10159	9746	9661
45°	9891	9477	9334
50°	9693	9095	8975
55°	9375	8736	8569
60°	9026	8282	8569
65°	8624	7770	7763
70°	8038	7232	7181
75°	7314	6565	6666
80°	6314	6226	5939
85°	5402	5379	5652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	722.0	3.3
10°-20°	2059.6	9.5
20°-30°	3101.6	14.3
30°-40°	3709.2	17.1
40°-50°	3809.3	17.5
50°-60°	3420.9	15.8
60°-70°	2632.2	12.1
70°-80°	1622.4	7.5
80°-90°	639.8	2.9
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°	5883.2	27.1
0°-40°	9592.4	44.2
0°-60°	16822.5	77.5
0°-90°	21717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21717.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7637	7637	7637	7637	7637	
5°	7612	7608	7578	7608	7612	723
15°	7287	7299	7282	7312	7328	2057
25°	6683	6691	6720	6770	6787	3082
35°	5837	5920	5945	5966	5966	3661
45°	4824	4900	4958	4979	4987	3737
55°	3729	3779	3833	3875	3870	3334
65°	2550	2575	2650	2741	2758	2514
75°	1350	1421	1529	1629	1654	1426
85°	367	487	633	725	754	419
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7636.7	7636.7	7636.7	7636.7	7636.7
2.5°	7640.8	7636.7	7607.5	7628.3	7636.7
5°	7611.7	7607.5	7578.3	7607.5	7611.7
7.5°	7561.7	7561.7	7532.5	7561.7	7565.8
10°	7495.0	7495.0	7470.0	7495.0	7503.3
12.5°	7399.2	7407.5	7382.5	7411.7	7420.0
15°	7286.7	7299.2	7282.5	7311.7	7328.4
17.5°	7165.9	7170.0	7161.7	7199.2	7215.9
20°	7032.6	7028.4	7028.4	7078.4	7082.5
22.5°	6853.4	6874.2	6878.4	6932.6	6936.7
25°	6682.6	6690.9	6720.1	6770.1	6786.7
27.5°	6520.1	6515.9	6545.1	6590.9	6607.6
30°	6286.8	6328.5	6378.5	6395.1	6411.8
32.5°	6103.5	6116.0	6166.0	6182.6	6195.1
35°	5836.9	5920.2	5945.2	5966.0	5966.0
37.5°	5620.2	5666.0	5699.4	5736.9	5753.5
40°	5357.7	5416.1	5453.6	5491.1	5503.6
42.5°	5128.6	5166.1	5211.9	5241.1	5249.4
45°	4824.5	4899.5	4957.8	4978.6	4986.9
47.5°	4574.5	4657.8	4666.1	4716.1	4728.6
50°	4307.9	4370.3	4391.2	4449.5	4441.2
52.5°	4012.1	4087.0	4137.0	4153.7	4157.9
55°	3728.8	3778.7	3832.9	3874.6	3870.4
57.5°	3441.3	3482.9	3528.8	3591.3	3595.4
60°	3141.3	3191.3	3241.3	3303.8	3470.4
62.5°	2849.7	2878.8	2937.2	3058.0	3045.5
65°	2549.7	2574.7	2649.7	2741.4	2758.0
67.5°	2224.8	2274.7	2387.2	2445.6	2453.9
70°	1937.3	1983.1	2083.1	2158.1	2174.8
72.5°	1633.2	1687.3	1795.6	1891.5	1916.5
75°	1349.9	1420.7	1529.0	1629.0	1654.0
77.5°	1058.2	1149.9	1279.0	1520.7	1404.0
80°	799.9	904.1	1095.7	1124.9	1137.4
82.5°	570.8	683.3	820.7	920.7	954.1
85°	366.6	487.4	633.3	724.9	754.1
87.5°	204.1	320.8	474.9	566.6	591.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)