

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-FL-UNV-L835-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 (P34181)
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-FL-UNV-L835-CD4-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

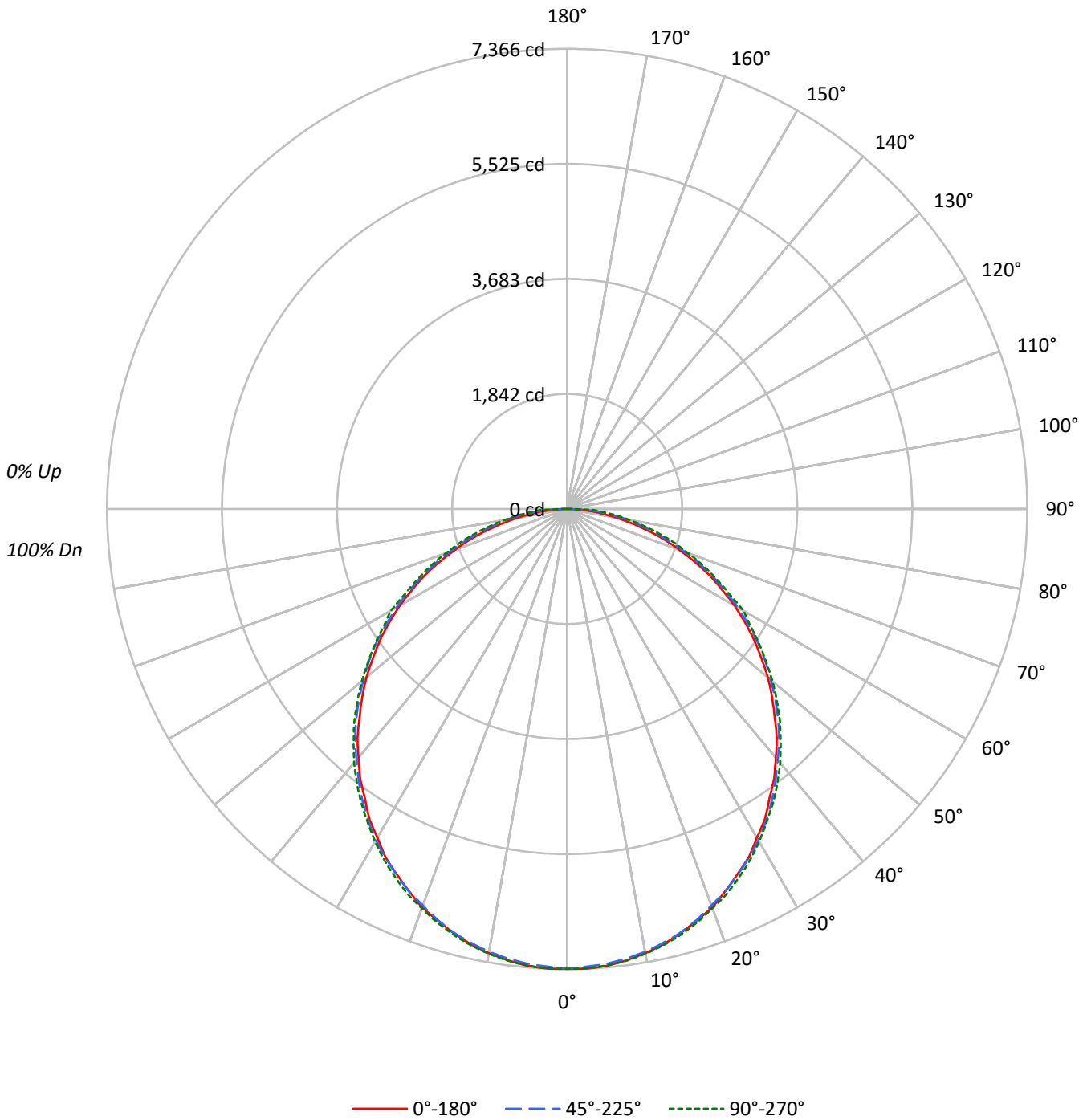
Lumens per Lamp: N/A
Luminaire Lumens: 20846.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43
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	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	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°	10806	10806	10806
5°	10802	10684	10706
10°	10735	10565	10573
15°	10641	10425	10413
20°	10555	10230	10221
25°	10389	10059	10031
30°	10222	9888	9806
35°	10033	9648	9566
40°	9851	9372	9312
45°	9629	9129	9017
50°	9438	8813	8675
55°	9188	8493	8301
60°	8885	8065	8045
65°	8505	7573	7386
70°	7926	6933	6794
75°	7221	6225	6132
80°	6318	5578	5303
85°	5286	4201	4415



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.8	3.3
10°-20°	1983.5	9.5
20°-30°	2984.6	14.3
30°-40°	3570.7	17.1
40°-50°	3679.7	17.7
50°-60°	3317.5	15.9
60°-70°	2548.1	12.2
70°-80°	1534.1	7.4
80°-90°	531.9	2.6
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°	5664.0	27.2
0°-40°	9234.7	44.3
0°-60°	16231.9	77.9
0°-90°	20846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7362	7362	7362	7362	7362	
5°	7340	7332	7306	7332	7336	697
15°	7026	7034	7019	7049	7053	1983
25°	6452	6456	6460	6498	6509	2975
35°	5648	5705	5708	5742	5746	3541
45°	4697	4738	4776	4814	4818	3631
55°	3655	3685	3726	3749	3749	3262
65°	2514	2522	2582	2613	2624	2478
75°	1333	1370	1450	1503	1522	1416
85°	359	415	495	562	589	404
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7362.2	7362.2	7362.2	7362.2	7362.2
2.5°	7366.0	7362.2	7332.0	7354.7	7362.2
5°	7339.5	7332.0	7305.6	7332.0	7335.8
7.5°	7286.7	7282.9	7260.3	7286.7	7294.2
10°	7218.7	7218.7	7196.1	7222.5	7230.1
12.5°	7135.7	7131.9	7113.0	7143.2	7150.8
15°	7026.2	7033.7	7018.6	7048.8	7052.6
17.5°	6905.4	6909.1	6897.8	6924.2	6935.6
20°	6788.3	6769.5	6754.3	6799.7	6803.4
22.5°	6618.4	6626.0	6622.2	6663.7	6671.3
25°	6452.3	6456.1	6459.9	6497.6	6508.9
27.5°	6290.0	6286.2	6297.5	6327.7	6339.0
30°	6074.8	6105.0	6123.8	6146.5	6150.3
32.5°	5889.8	5901.1	5923.7	5938.8	5942.6
35°	5648.1	5704.8	5708.5	5742.5	5746.3
37.5°	5440.5	5459.4	5478.2	5519.8	5527.3
40°	5195.1	5221.5	5244.2	5281.9	5304.6
42.5°	4968.5	4998.7	5021.4	5055.4	5059.2
45°	4696.7	4738.2	4776.0	4813.7	4817.5
47.5°	4447.5	4489.1	4519.3	4549.5	4553.2
50°	4194.6	4228.5	4255.0	4292.7	4292.7
52.5°	3915.2	3956.7	3998.2	4013.3	4013.3
55°	3654.7	3684.9	3726.4	3749.1	3749.1
57.5°	3371.5	3386.6	3431.9	3473.4	3473.4
60°	3092.1	3111.0	3156.3	3186.5	3258.2
62.5°	2793.9	2824.1	2854.3	2952.4	2910.9
65°	2514.5	2522.0	2582.4	2612.6	2624.0
67.5°	2204.9	2231.3	2291.7	2325.7	2348.4
70°	1910.4	1944.4	1997.2	2038.8	2057.6
72.5°	1631.0	1646.1	1714.1	1770.7	1797.1
75°	1332.7	1370.5	1449.8	1502.6	1521.5
77.5°	1049.6	1110.0	1185.5	1370.5	1264.8
80°	800.4	845.7	981.6	989.2	1015.6
82.5°	558.8	611.6	702.2	762.6	792.9
85°	358.7	415.3	494.6	562.5	589.0
87.5°	166.1	226.5	328.5	404.0	426.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)