

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-LD5-18-W-FLWG-UNV-L835-CD2-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-LD5-18-W-FLWG-UNV-L835-CD2-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

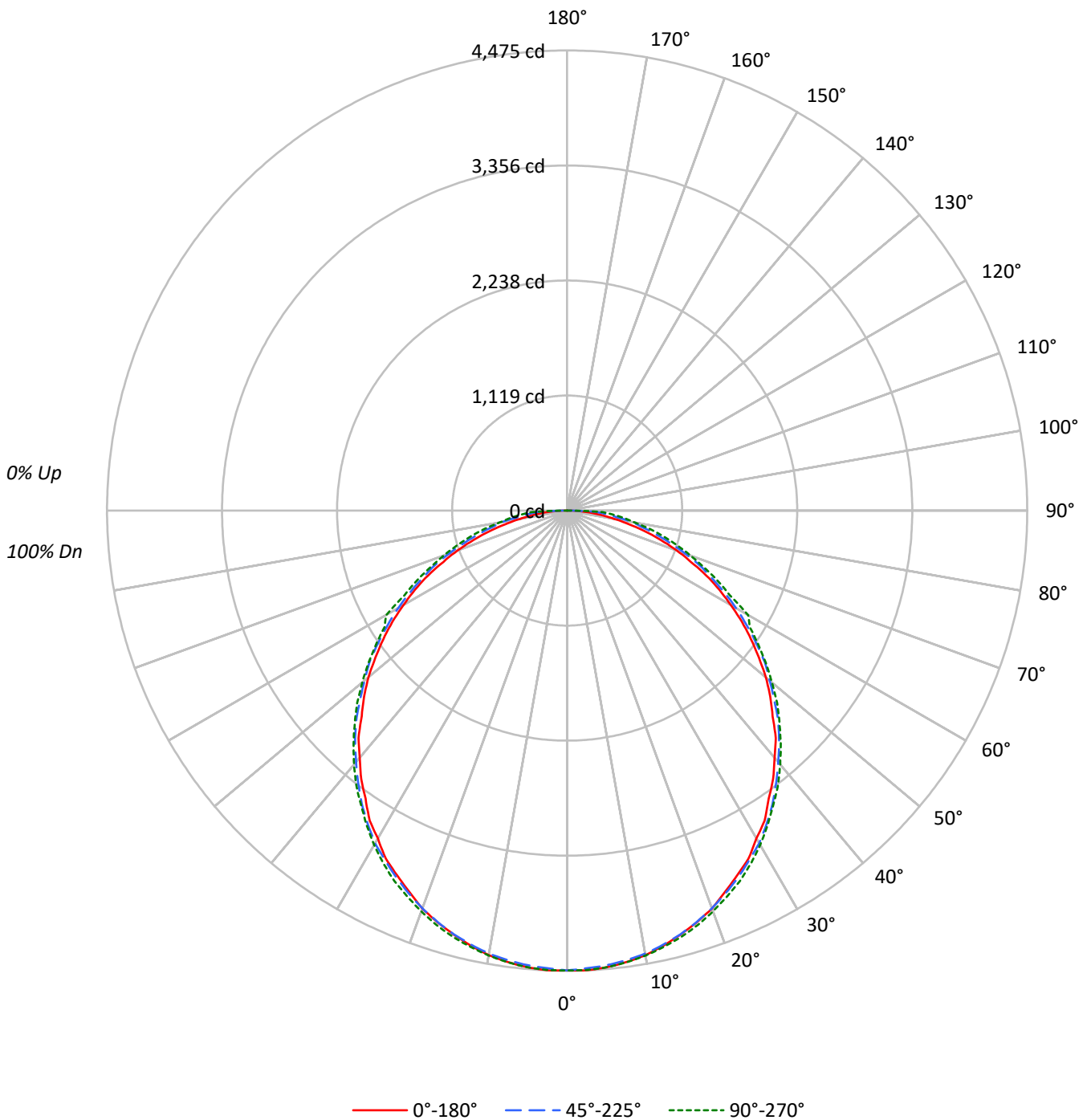
Lumens per Lamp: N/A
Luminaire Lumens: 12718.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 131.3
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°	6564	6564	6564
5°	6561	6490	6506
10°	6528	6423	6426
15°	6463	6335	6336
20°	6404	6234	6231
25°	6301	6128	6125
30°	6195	6032	5987
35°	6072	5884	5816
40°	5950	5708	5658
45°	5792	5550	5466
50°	5676	5326	5256
55°	5490	5116	5018
60°	5286	4850	5018
65°	5051	4550	4546
70°	4707	4235	4205
75°	4283	3844	3904
80°	3697	3646	3478
85°	3164	3150	3310



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.8	3.3
10°-20°	1206.1	9.5
20°-30°	1816.4	14.3
30°-40°	2172.2	17.1
40°-50°	2230.8	17.5
50°-60°	2003.3	15.8
60°-70°	1541.5	12.1
70°-80°	950.1	7.5
80°-90°	374.7	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°	3445.3	27.1
0°-40°	5617.5	44.2
0°-60°	9851.7	77.5
0°-90°	12718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4472	4472	4472	4472	4472	
5°	4458	4455	4438	4455	4458	423
15°	4267	4275	4265	4282	4292	1204
25°	3914	3918	3935	3965	3974	1805
35°	3418	3467	3482	3494	3494	2144
45°	2825	2869	2903	2916	2920	2188
55°	2184	2213	2245	2269	2267	1952
65°	1493	1508	1552	1605	1615	1472
75°	790	832	895	954	969	835
85°	215	286	371	424	442	246
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4472.2	4472.2	4472.2	4472.2	4472.2
2.5°	4474.6	4472.2	4455.1	4467.3	4472.2
5°	4457.6	4455.1	4438.1	4455.1	4457.6
7.5°	4428.3	4428.3	4411.2	4428.3	4430.7
10°	4389.3	4389.3	4374.6	4389.3	4394.1
12.5°	4333.1	4338.0	4323.4	4340.5	4345.3
15°	4267.3	4274.6	4264.8	4281.9	4291.7
17.5°	4196.5	4198.9	4194.1	4216.0	4225.8
20°	4118.4	4116.0	4116.0	4145.3	4147.7
22.5°	4013.5	4025.7	4028.2	4059.9	4062.3
25°	3913.5	3918.4	3935.4	3964.7	3974.5
27.5°	3818.3	3815.9	3833.0	3859.8	3869.6
30°	3681.7	3706.1	3735.4	3745.1	3754.9
32.5°	3574.4	3581.7	3610.9	3620.7	3628.0
35°	3418.2	3467.0	3481.6	3493.8	3493.8
37.5°	3291.3	3318.2	3337.7	3359.6	3369.4
40°	3137.6	3171.8	3193.7	3215.7	3223.0
42.5°	3003.4	3025.4	3052.2	3069.3	3074.2
45°	2825.3	2869.2	2903.4	2915.6	2920.5
47.5°	2678.9	2727.7	2732.6	2761.9	2769.2
50°	2522.8	2559.4	2571.6	2605.7	2600.9
52.5°	2349.6	2393.5	2422.8	2432.5	2435.0
55°	2183.6	2212.9	2244.6	2269.0	2266.6
57.5°	2015.3	2039.7	2066.5	2103.1	2105.6
60°	1839.6	1868.9	1898.2	1934.8	2032.4
62.5°	1668.8	1685.9	1720.1	1790.8	1783.5
65°	1493.2	1507.8	1551.7	1605.4	1615.2
67.5°	1302.9	1332.1	1398.0	1432.2	1437.1
70°	1134.5	1161.4	1219.9	1263.8	1273.6
72.5°	956.4	988.1	1051.6	1107.7	1122.3
75°	790.5	832.0	895.4	954.0	968.6
77.5°	619.7	673.4	749.0	890.5	822.2
80°	468.4	529.4	641.7	658.8	666.1
82.5°	334.3	400.1	480.6	539.2	558.7
85°	214.7	285.5	370.9	424.5	441.6
87.5°	119.6	187.9	278.1	331.8	346.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)