

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-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-LD5-32-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**

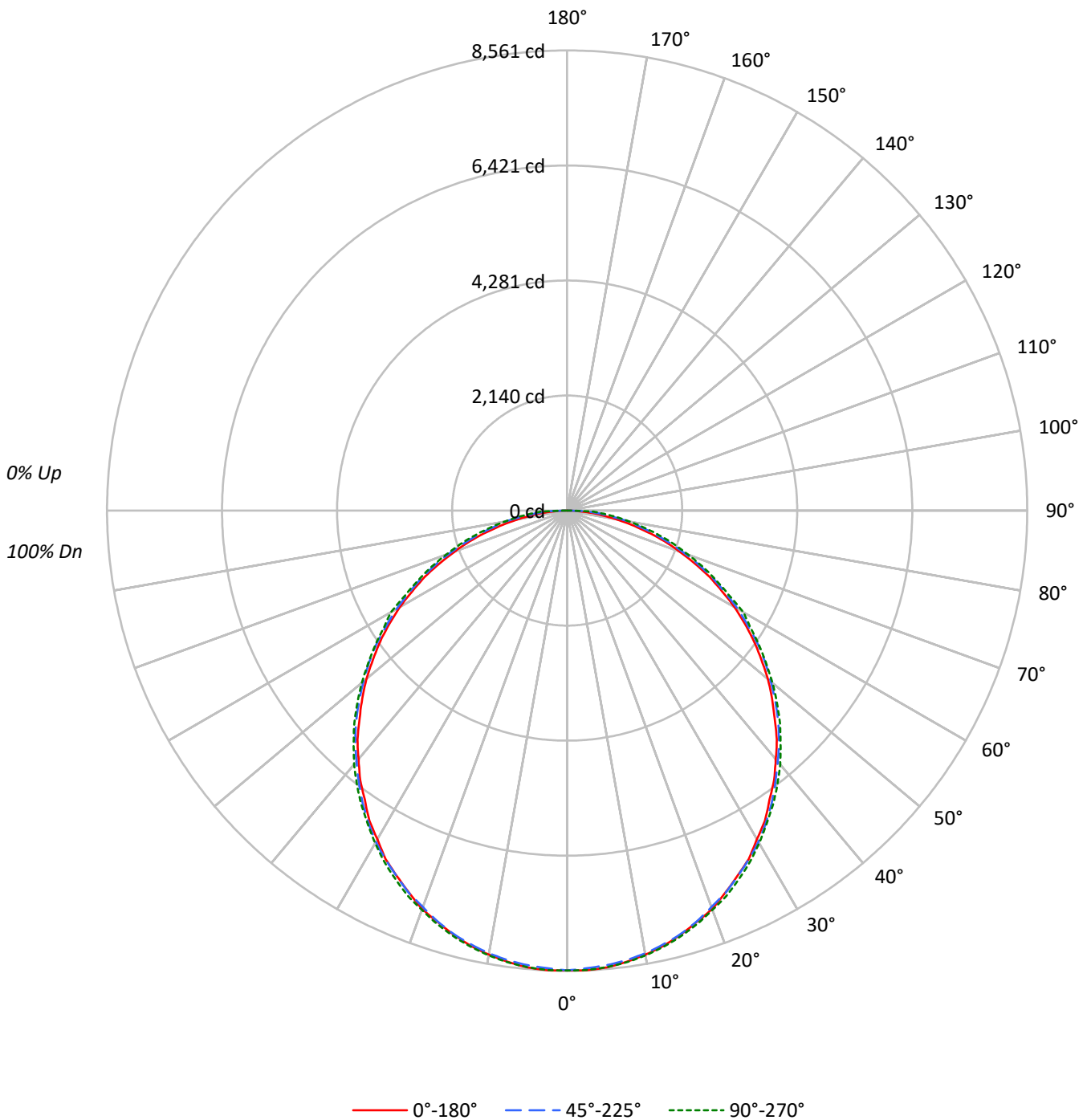
Lumens per Lamp: N/A  
Luminaire Lumens: 24227.0 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 253.2  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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°	12559	12559	12559
5°	12554	12417	12443
10°	12477	12279	12287
15°	12367	12116	12102
20°	12267	11889	11879
25°	12074	11690	11658
30°	11880	11492	11397
35°	11660	11213	11117
40°	11449	10892	10822
45°	11191	10610	10479
50°	10968	10243	10082
55°	10679	9871	9647
60°	10326	9373	9350
65°	9885	8801	8583
70°	9212	8058	7896
75°	8393	7234	7127
80°	7342	6482	6164
85°	6142	4882	5130



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	808.7	3.3
10°-20°	2305.2	9.5
20°-30°	3468.7	14.3
30°-40°	4149.9	17.1
40°-50°	4276.5	17.7
50°-60°	3855.6	15.9
60°-70°	2961.3	12.2
70°-80°	1782.9	7.4
80°-90°	618.1	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°	6582.6	27.2
0°-40°	10732.5	44.3
0°-60°	18864.6	77.9
0°-90°	24227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24227.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8556	8556	8556	8556	8556	
5°	8530	8521	8490	8521	8526	810
15°	8166	8174	8157	8192	8196	2304
25°	7499	7503	7508	7552	7565	3458
35°	6564	6630	6634	6674	6678	4115
45°	5458	5507	5551	5594	5599	4219
55°	4247	4282	4331	4357	4357	3791
65°	2922	2931	3001	3036	3050	2880
75°	1549	1593	1685	1746	1768	1645
85°	417	483	575	654	684	469
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8556.3	8556.3	8556.3	8556.3	8556.3
2.5°	8560.7	8556.3	8521.2	8547.5	8556.3
5°	8529.9	8521.2	8490.5	8521.2	8525.6
7.5°	8468.5	8464.1	8437.8	8468.5	8477.3
10°	8389.5	8389.5	8363.2	8393.9	8402.7
12.5°	8293.0	8288.6	8266.7	8301.8	8310.6
15°	8165.8	8174.5	8157.0	8192.1	8196.5
17.5°	8025.3	8029.7	8016.6	8047.3	8060.4
20°	7889.3	7867.4	7849.8	7902.5	7906.9
22.5°	7691.9	7700.6	7696.3	7744.5	7753.3
25°	7498.8	7503.2	7507.6	7551.5	7564.6
27.5°	7310.1	7305.7	7318.9	7354.0	7367.2
30°	7060.0	7095.1	7117.1	7143.4	7147.8
32.5°	6845.0	6858.2	6884.5	6902.1	6906.4
35°	6564.2	6630.0	6634.4	6673.9	6678.3
37.5°	6322.9	6344.8	6366.7	6415.0	6423.8
40°	6037.7	6068.4	6094.7	6138.6	6164.9
42.5°	5774.4	5809.5	5835.8	5875.3	5879.7
45°	5458.5	5506.7	5550.6	5594.5	5598.9
47.5°	5168.9	5217.1	5252.2	5287.3	5291.7
50°	4874.9	4914.4	4945.1	4989.0	4989.0
52.5°	4550.2	4598.4	4646.7	4664.3	4664.3
55°	4247.4	4282.5	4330.8	4357.1	4357.1
57.5°	3918.3	3935.9	3988.5	4036.8	4036.8
60°	3593.6	3615.6	3668.2	3703.3	3786.7
62.5°	3247.0	3282.1	3317.2	3431.3	3383.0
65°	2922.3	2931.1	3001.3	3036.4	3049.5
67.5°	2562.5	2593.2	2663.4	2702.9	2729.2
70°	2220.2	2259.7	2321.2	2369.4	2391.4
72.5°	1895.5	1913.1	1992.1	2057.9	2088.6
75°	1548.9	1592.8	1684.9	1746.4	1768.3
77.5°	1219.8	1290.0	1377.8	1592.8	1469.9
80°	930.2	982.9	1140.8	1149.6	1180.3
82.5°	649.4	710.8	816.1	886.3	921.4
85°	416.8	482.7	574.8	653.8	684.5
87.5°	193.1	263.3	381.7	469.5	495.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)