

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-L840-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-L840-CD4-U  
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

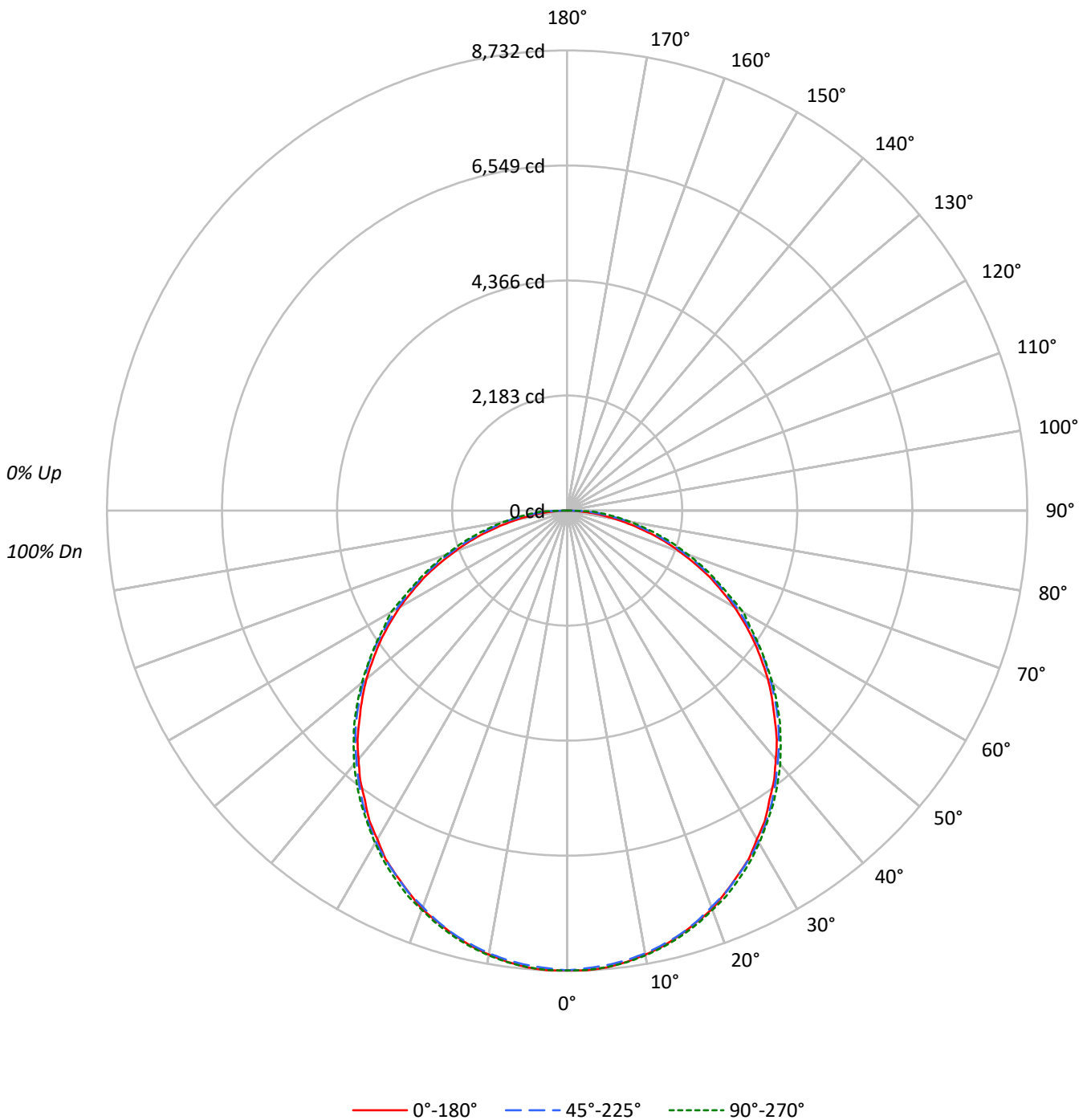
Lumens per Lamp: N/A  
Luminaire Lumens: 24711.0 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

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°	12810	12810	12810
5°	12805	12665	12692
10°	12726	12524	12533
15°	12614	12358	12343
20°	12512	12127	12116
25°	12315	11924	11891
30°	12118	11722	11625
35°	11893	11437	11339
40°	11677	11110	11038
45°	11414	10822	10688
50°	11188	10447	10283
55°	10892	10068	9840
60°	10532	9560	9536
65°	10082	8977	8755
70°	9396	8219	8054
75°	8560	7379	7269
80°	7489	6612	6287
85°	6266	4980	5233



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	824.8	3.3
10°-20°	2351.3	9.5
20°-30°	3538.0	14.3
30°-40°	4232.8	17.1
40°-50°	4362.0	17.7
50°-60°	3932.6	15.9
60°-70°	3020.5	12.2
70°-80°	1818.5	7.4
80°-90°	630.5	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°	6714.1	27.2
0°-40°	10946.9	44.3
0°-60°	19241.5	77.9
0°-90°	24711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24711.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8727	8727	8727	8727	8727	
5°	8700	8691	8660	8691	8696	826
15°	8329	8338	8320	8356	8360	2351
25°	7649	7653	7658	7702	7716	3527
35°	6695	6762	6767	6807	6812	4197
45°	5568	5617	5662	5706	5711	4304
55°	4332	4368	4417	4444	4444	3867
65°	2981	2990	3061	3097	3110	2937
75°	1580	1625	1719	1781	1804	1678
85°	425	492	586	667	698	479
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8727.2	8727.2	8727.2	8727.2	8727.2
2.5°	8731.7	8727.2	8691.4	8718.3	8727.2
5°	8700.4	8691.4	8660.1	8691.4	8695.9
7.5°	8637.7	8633.2	8606.4	8637.7	8646.6
10°	8557.1	8557.1	8530.3	8561.6	8570.6
12.5°	8458.7	8454.2	8431.8	8467.6	8476.6
15°	8328.9	8337.8	8319.9	8355.7	8360.2
17.5°	8185.7	8190.1	8176.7	8208.1	8221.5
20°	8046.9	8024.6	8006.7	8060.4	8064.8
22.5°	7845.5	7854.5	7850.0	7899.2	7908.2
25°	7648.6	7653.1	7657.6	7702.3	7715.7
27.5°	7456.2	7451.7	7465.1	7500.9	7514.3
30°	7201.1	7236.9	7259.2	7286.1	7290.6
32.5°	6981.8	6995.2	7022.0	7039.9	7044.4
35°	6695.3	6762.5	6766.9	6807.2	6811.7
37.5°	6449.2	6471.6	6493.9	6543.2	6552.1
40°	6158.3	6189.6	6216.5	6261.2	6288.1
42.5°	5889.7	5925.6	5952.4	5992.7	5997.2
45°	5567.5	5616.7	5661.5	5706.3	5710.7
47.5°	5272.1	5321.4	5357.2	5393.0	5397.4
50°	4972.3	5012.5	5043.9	5088.6	5088.6
52.5°	4641.1	4690.3	4739.5	4757.4	4757.4
55°	4332.3	4368.1	4417.3	4444.2	4444.2
57.5°	3996.6	4014.5	4068.2	4117.5	4117.5
60°	3665.4	3687.8	3741.5	3777.3	3862.3
62.5°	3311.9	3347.7	3383.5	3499.8	3450.6
65°	2980.7	2989.6	3061.2	3097.0	3110.5
67.5°	2613.7	2645.0	2716.6	2756.9	2783.8
70°	2264.6	2304.9	2367.5	2416.8	2439.1
72.5°	1933.4	1951.3	2031.9	2099.0	2130.3
75°	1579.8	1624.6	1718.6	1781.2	1803.6
77.5°	1244.2	1315.8	1405.3	1624.6	1499.3
80°	948.8	1002.5	1163.6	1172.6	1203.9
82.5°	662.4	725.0	832.4	904.0	939.9
85°	425.2	492.3	586.3	666.8	698.2
87.5°	196.9	268.5	389.4	478.9	505.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)