

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-N-WG-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 (P34186)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-32-N-WG-UNV-L835-CD4-U  
Description: Metalux 8' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

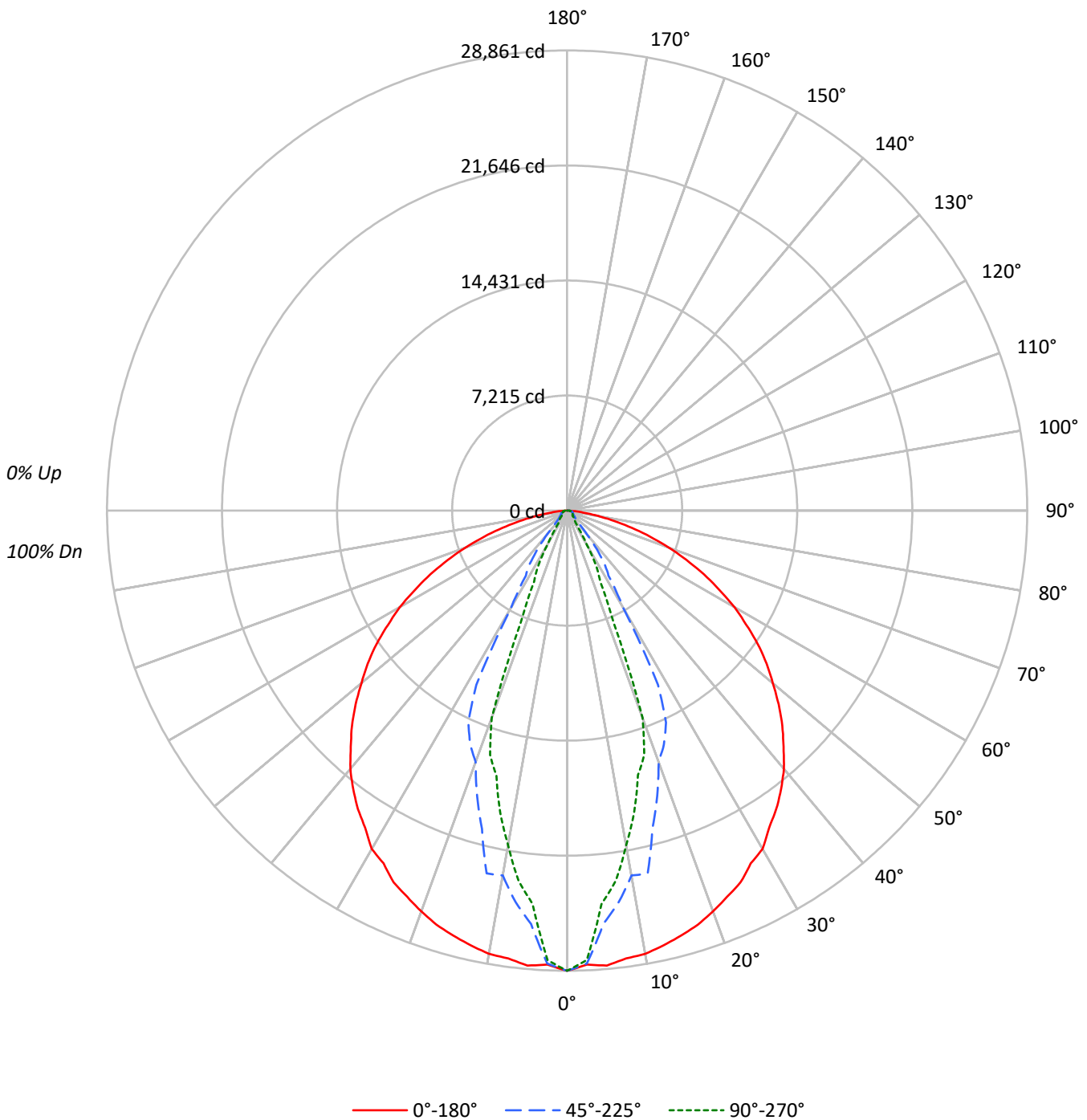
Lumens per Lamp: N/A  
Luminaire Lumens: 28654.0 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71				71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				64
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59				59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54				54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49				49
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46				46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43				43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40				40

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	42363	42363	42363
5°	42157	38067	36157
10°	41977	34125	31201
15°	41793	30693	25356
20°	41589	25408	20772
25°	41440	22843	17556
30°	41241	11385	3939
35°	40621	6892	1500
40°	40117	3449	1307
45°	39136	1495	967
50°	37894	1267	881
55°	36692	1059	924
60°	34837	1103	901
65°	32012	1196	921
70°	28132	1251	955
75°	22737	1384	1051
80°	15644	1643	1163
85°	8803	1973	1457



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2465.3	8.6
10°-20°	5976.6	20.9
20°-30°	6510.6	22.7
30°-40°	5008.5	17.5
40°-50°	3700.6	12.9
50°-60°	2328.4	8.1
60°-70°	1524.7	5.3
70°-80°	853.6	3.0
80°-90°	285.8	1.0
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°	14952.5	52.2
0°-40°	19961.0	69.7
0°-60°	25989.9	90.7
0°-90°	28654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28654.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	28861	28861	28861	28861	28861	
5°	28643	28420	26031	24494	24774	###
15°	27595	23992	20663	17937	17174	7792
25°	25737	19231	14670	6534	4903	11832
35°	22868	14172	4078	1299	901	14301
45°	19089	7548	782	659	517	14701
55°	14594	1934	465	488	417	13002
65°	9464	479	408	365	327	9334
75°	4196	360	322	289	261	4502
85°	597	228	232	223	194	762
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	28861.3	28861.3	28861.3	28861.3	28861.3
2.5°	28505.7	28515.2	28444.0	28301.8	28211.7
5°	28643.2	28420.3	26030.6	24494.4	24774.1
7.5°	28330.2	27178.1	24774.1	23626.7	23403.9
10°	28225.9	25272.0	23242.7	22853.9	21336.6
12.5°	27927.2	24115.1	23313.8	20862.4	19406.8
15°	27595.3	23991.8	20663.3	17937.0	17173.6
17.5°	27235.0	22910.7	18776.2	16438.7	16073.6
20°	26746.6	22218.5	16775.3	15111.0	13826.1
22.5°	26220.3	21886.6	15869.7	9848.0	7633.8
25°	25736.7	19231.4	14670.1	6533.7	4902.7
27.5°	24940.1	19018.0	12323.1	4784.1	4044.5
30°	24508.6	17045.6	7050.6	3598.8	2470.3
32.5°	23574.6	15499.8	4826.8	2185.8	1474.6
35°	22868.1	14172.2	4077.7	1299.2	900.9
37.5°	22038.3	13295.1	3048.8	891.4	782.3
40°	21156.4	12261.4	1929.8	796.6	744.4
42.5°	20084.8	11042.9	1142.7	749.2	640.1
45°	19089.1	7548.4	782.3	659.1	516.8
47.5°	17989.1	5149.2	668.5	559.5	445.7
50°	16841.7	3366.4	611.6	497.9	436.2
52.5°	15765.4	2759.5	531.0	497.9	436.2
55°	14594.2	1934.5	464.7	488.4	417.2
57.5°	13309.3	1204.3	436.2	474.1	403.0
60°	12123.9	711.2	431.5	459.9	365.1
62.5°	10739.4	540.5	422.0	407.8	346.1
65°	9464.0	478.9	407.8	365.1	327.2
67.5°	8093.7	431.5	379.3	350.9	317.7
70°	6780.3	388.8	360.4	327.2	289.2
72.5°	5462.2	374.6	341.4	308.2	275.0
75°	4196.2	360.4	322.4	289.2	260.8
77.5°	3053.5	336.6	303.5	279.7	246.6
80°	1981.9	308.2	289.2	260.8	222.8
82.5°	1104.8	279.7	265.5	241.8	213.4
85°	597.4	227.6	232.3	222.8	194.4
87.5°	109.1	161.2	199.1	194.4	170.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)