

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-TWBWG-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-TWBWG-UNV-L835-CD4-U  
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD  
DISTRIBUION  
  
Light Source: (1) 3500 CCT, 80 CRI LEDS  
Ballast/Driver: -

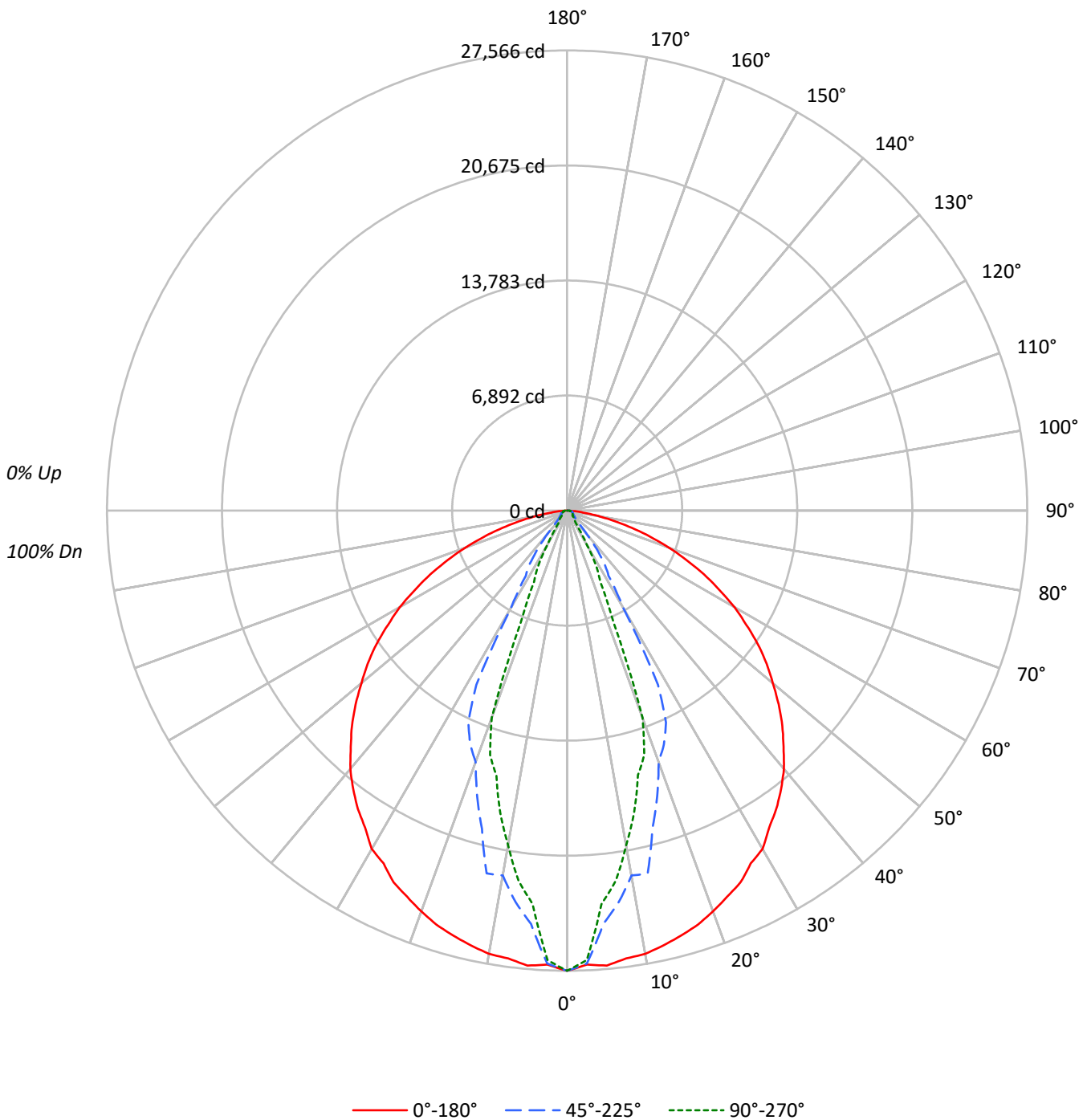
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27368.0 lumens  
Efficiency: N/A  
Efficacy: 108.1 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 (Ain): 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°	40462	40462	40462
5°	40265	36359	34535
10°	40093	32593	29801
15°	39918	29315	24218
20°	39723	24268	19839
25°	39580	21818	7217
30°	39391	10874	3762
35°	38798	6582	1432
40°	38316	3294	1248
45°	37379	1428	924
50°	36193	1210	842
55°	35045	1012	882
60°	33273	1053	861
65°	30575	1142	880
70°	26869	1195	912
75°	21716	1322	1004
80°	14942	1569	1111
85°	8408	1885	1392



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2354.6	8.6
10°-20°	5708.3	20.9
20°-30°	6218.4	22.7
30°-40°	4783.7	17.5
40°-50°	3534.5	12.9
50°-60°	2223.9	8.1
60°-70°	1456.2	5.3
70°-80°	815.3	3.0
80°-90°	273.0	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°	14281.4	52.2
0°-40°	19065.1	69.7
0°-60°	24823.5	90.7
0°-90°	27368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27368.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	27566	27566	27566	27566	27566	
5°	27358	27145	24862	23395	23662	###
15°	26357	22915	19736	17132	16403	7442
25°	24582	18368	14012	6240	4683	11301
35°	21842	13536	3895	1241	860	13659
45°	18232	7210	747	630	494	14041
55°	13939	1848	444	466	398	12418
65°	9039	457	390	349	312	8915
75°	4008	344	308	276	249	4300
85°	571	217	222	213	186	727
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	27566.0	27566.0	27566.0	27566.0	27566.0
2.5°	27226.3	27235.4	27167.5	27031.6	26945.6
5°	27357.7	27144.8	24862.4	23395.1	23662.3
7.5°	27058.8	25958.3	23662.3	22566.3	22353.5
10°	26959.1	24137.8	22199.5	21828.2	20379.0
12.5°	26673.8	23032.8	22267.4	19926.1	18535.8
15°	26356.8	22915.0	19735.9	17131.9	16402.8
17.5°	26012.7	21882.5	17933.5	15700.9	15352.2
20°	25546.2	21221.3	16022.4	14432.9	13205.6
22.5°	25043.5	20904.3	15157.4	9406.0	7291.2
25°	24581.6	18368.3	14011.7	6240.5	4682.6
27.5°	23820.8	18164.5	11770.0	4569.4	3863.0
30°	23408.7	16280.5	6734.1	3437.3	2359.4
32.5°	22516.5	14804.2	4610.2	2087.7	1408.4
35°	21841.7	13536.2	3894.7	1240.9	860.4
37.5°	21049.2	12698.4	2911.9	851.4	747.2
40°	20206.9	11711.1	1843.2	760.8	711.0
42.5°	19183.4	10547.3	1091.4	715.5	611.4
45°	18232.4	7209.6	747.2	629.5	493.6
47.5°	17181.8	4918.1	638.5	534.4	425.7
50°	16085.8	3215.4	584.2	475.5	416.6
52.5°	15057.8	2635.7	507.2	475.5	416.6
55°	13939.2	1847.7	443.8	466.5	398.5
57.5°	12712.0	1150.3	416.6	452.9	384.9
60°	11579.8	679.3	412.1	439.3	348.7
62.5°	10257.4	516.3	403.1	389.5	330.6
65°	9039.2	457.4	389.5	348.7	312.5
67.5°	7730.4	412.1	362.3	335.1	303.4
70°	6476.0	371.4	344.2	312.5	276.2
72.5°	5217.0	357.8	326.1	294.4	262.7
75°	4007.9	344.2	307.9	276.2	249.1
77.5°	2916.5	321.5	289.8	267.2	235.5
80°	1893.0	294.4	276.2	249.1	212.8
82.5°	1055.2	267.2	253.6	231.0	203.8
85°	570.6	217.4	221.9	212.8	185.7
87.5°	104.2	154.0	190.2	185.7	163.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)