

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-LD5-28-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-LD5-28-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

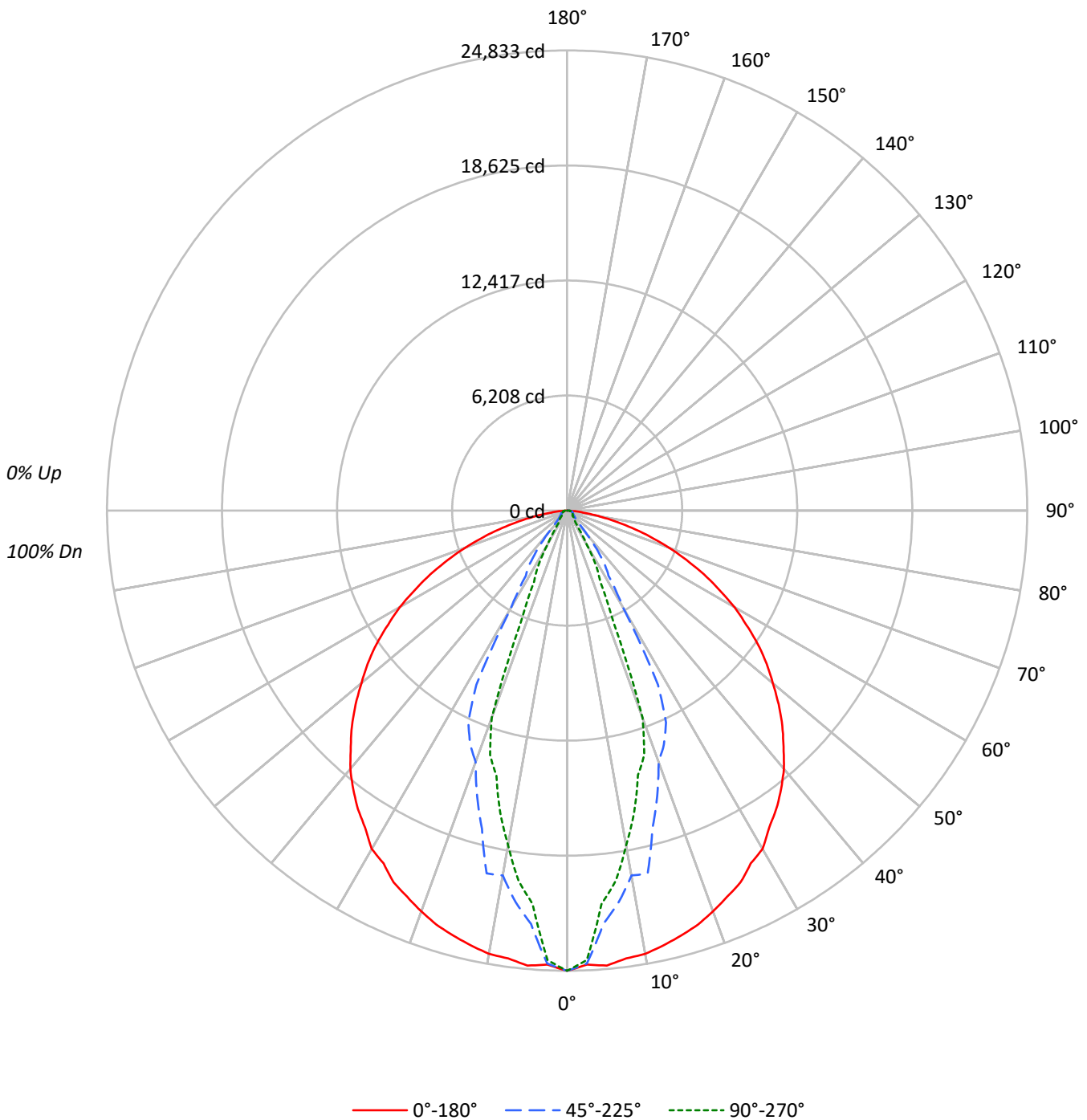
Lumens per Lamp: N/A
Luminaire Lumens: 24655.0 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 204
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	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°	36451	36451	36451
5°	36274	32755	31111
10°	36118	29362	26846
15°	35961	26409	21817
20°	35785	21862	17873
25°	35657	19655	6501
30°	35486	9796	3389
35°	34952	5930	1290
40°	34518	2968	1124
45°	33674	1287	832
50°	32605	1090	758
55°	31571	911	795
60°	29975	949	776
65°	27544	1029	792
70°	24206	1077	822
75°	19564	1191	904
80°	13460	1414	1001
85°	7574	1698	1254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2121.2	8.6
10°-20°	5142.5	20.9
20°-30°	5602.0	22.7
30°-40°	4309.5	17.5
40°-50°	3184.1	12.9
50°-60°	2003.4	8.1
60°-70°	1311.9	5.3
70°-80°	734.5	3.0
80°-90°	245.9	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°	12865.7	52.2
0°-40°	17175.2	69.7
0°-60°	22362.7	90.7
0°-90°	24655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24833	24833	24833	24833	24833	
5°	24646	24454	22398	21076	21317	###
15°	23744	20644	17780	15434	14777	6704
25°	22145	16547	12623	5622	4218	10180
35°	19677	12194	3509	1118	775	12305
45°	16425	6495	673	567	445	12649
55°	12557	1664	400	420	359	11187
65°	8143	412	351	314	282	8031
75°	3611	310	277	249	224	3874
85°	514	196	200	192	167	655
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24833.4	24833.4	24833.4	24833.4	24833.4
2.5°	24527.4	24535.5	24474.3	24351.9	24274.4
5°	24645.7	24453.9	22397.8	21075.9	21316.6
7.5°	24376.4	23385.0	21316.6	20329.3	20137.6
10°	24286.7	21745.0	19998.9	19664.3	18358.8
12.5°	24029.6	20749.5	20060.1	17950.8	16698.4
15°	23744.1	20643.5	17779.5	15433.6	14776.8
17.5°	23434.0	19713.3	16155.8	14144.4	13830.3
20°	23013.8	19117.6	14434.1	13002.1	11896.5
22.5°	22560.9	18832.1	13654.9	8473.6	6568.4
25°	22144.8	16547.4	12622.7	5621.9	4218.4
27.5°	21459.4	16363.8	10603.2	4116.5	3480.0
30°	21088.2	14666.7	6066.6	3096.5	2125.5
32.5°	20284.4	13336.7	4153.2	1880.8	1268.8
35°	19676.6	12194.3	3508.6	1117.8	775.1
37.5°	18962.6	11439.6	2623.3	767.0	673.2
40°	18203.8	10550.2	1660.5	685.4	640.5
42.5°	17281.8	9501.7	983.2	644.6	550.8
45°	16425.0	6494.9	673.2	567.1	444.7
47.5°	15478.5	4430.6	575.2	481.4	383.5
50°	14491.2	2896.6	526.3	428.4	375.3
52.5°	13565.1	2374.4	456.9	428.4	375.3
55°	12557.4	1664.5	399.8	420.2	359.0
57.5°	11451.8	1036.3	375.3	408.0	346.8
60°	10431.9	612.0	371.3	395.7	314.1
62.5°	9240.6	465.1	363.1	350.9	297.8
65°	8143.2	412.1	350.9	314.1	281.5
67.5°	6964.1	371.3	326.4	301.9	273.3
70°	5834.0	334.5	310.1	281.5	248.9
72.5°	4699.9	322.3	293.7	265.2	236.6
75°	3610.6	310.1	277.4	248.9	224.4
77.5°	2627.4	289.7	261.1	240.7	212.1
80°	1705.3	265.2	248.9	224.4	191.7
82.5°	950.6	240.7	228.5	208.1	183.6
85°	514.0	195.8	199.9	191.7	167.3
87.5°	93.8	138.7	171.3	167.3	146.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)