

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: **4ILED-LD5-5-N-WG-UNV-L835-CD1-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: 4ILED-LD5-5-N-WG-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

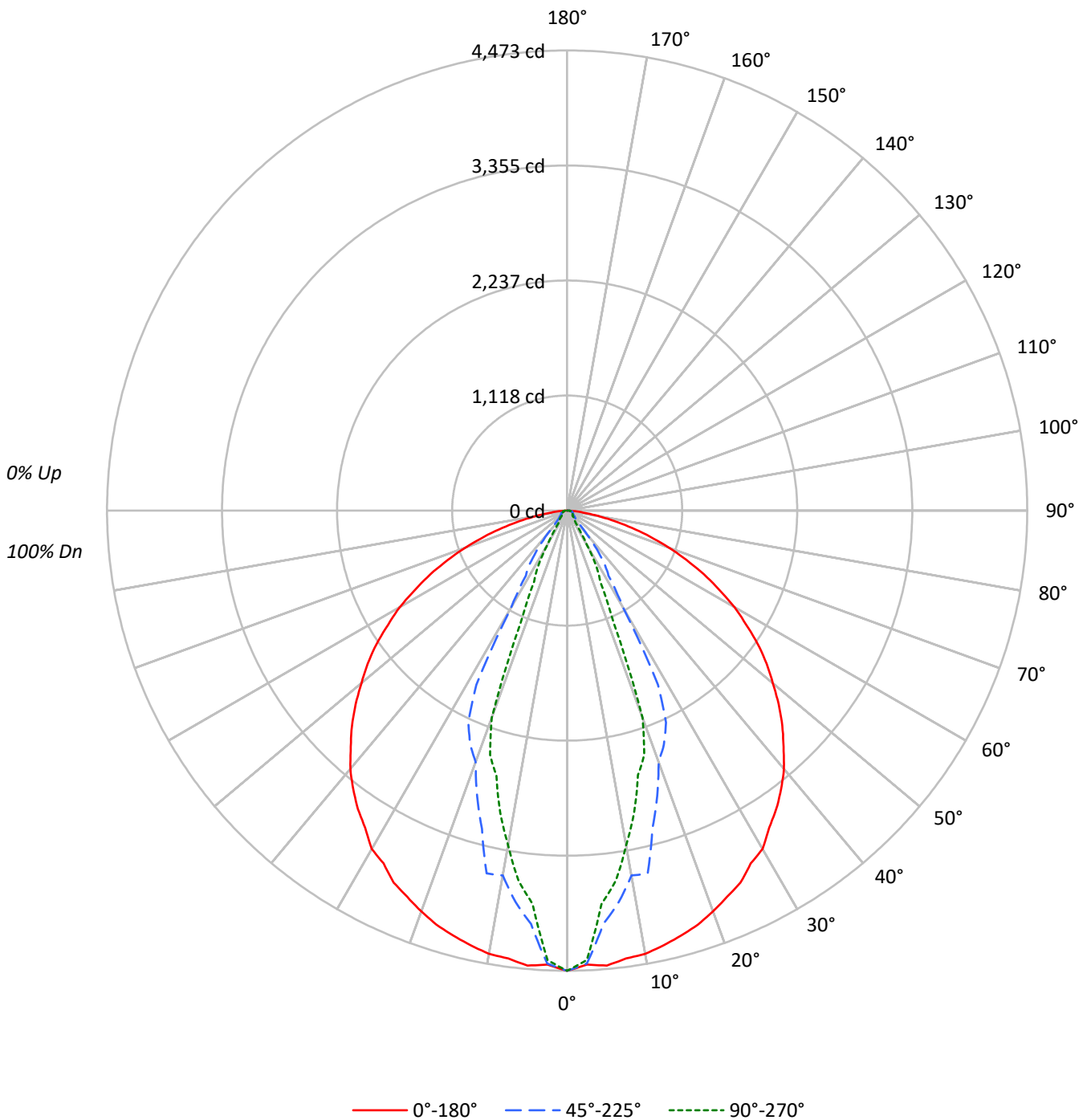
Lumens per Lamp: N/A
Luminaire Lumens: 4441.0 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 33.5
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°	13131	13131	13131
5°	13053	11791	11208
10°	12983	10562	9671
15°	12912	9492	7860
20°	12834	7851	6439
25°	12772	7053	2342
30°	12693	3512	1221
35°	12483	2124	465
40°	12308	1062	405
45°	11983	460	300
50°	11576	389	273
55°	11178	325	287
60°	10575	337	279
65°	9670	365	285
70°	8440	380	296
75°	6748	419	326
80°	4548	493	360
85°	2426	582	451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.1	8.6
10°-20°	926.3	20.9
20°-30°	1009.1	22.7
30°-40°	776.3	17.5
40°-50°	573.6	12.9
50°-60°	360.9	8.1
60°-70°	236.3	5.3
70°-80°	132.3	3.0
80°-90°	44.3	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°	2317.4	52.2
0°-40°	3093.7	69.7
0°-60°	4028.1	90.7
0°-90°	4441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4441.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4473	4473	4473	4473	4473	
5°	4439	4405	4034	3796	3840	421
15°	4277	3718	3202	2780	2662	1208
25°	3989	2981	2274	1013	760	1834
35°	3544	2196	632	201	140	2217
45°	2959	1170	121	102	80	2278
55°	2262	300	72	76	65	2015
65°	1467	74	63	57	51	1447
75°	650	56	50	45	40	698
85°	93	35	36	34	30	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4473.1	4473.1	4473.1	4473.1	4473.1
2.5°	4418.0	4419.5	4408.5	4386.4	4372.4
5°	4439.3	4404.8	4034.4	3796.3	3839.7
7.5°	4390.8	4212.2	3839.7	3661.8	3627.3
10°	4374.7	3916.8	3602.3	3542.1	3306.9
12.5°	4328.4	3737.5	3613.3	3233.4	3007.8
15°	4276.9	3718.4	3202.5	2780.0	2661.7
17.5°	4221.1	3550.9	2910.1	2547.8	2491.2
20°	4145.4	3443.6	2600.0	2342.0	2142.9
22.5°	4063.8	3392.1	2459.6	1526.3	1183.1
25°	3988.9	2980.6	2273.7	1012.6	759.9
27.5°	3865.4	2947.5	1909.9	741.5	626.8
30°	3798.5	2641.8	1092.7	557.8	382.9
32.5°	3653.8	2402.3	748.1	338.8	228.5
35°	3544.3	2196.5	632.0	201.4	139.6
37.5°	3415.7	2060.6	472.5	138.2	121.3
40°	3279.0	1900.4	299.1	123.5	115.4
42.5°	3112.9	1711.5	177.1	116.1	99.2
45°	2958.6	1169.9	121.3	102.1	80.1
47.5°	2788.1	798.1	103.6	86.7	69.1
50°	2610.2	521.8	94.8	77.2	67.6
52.5°	2443.4	427.7	82.3	77.2	67.6
55°	2261.9	299.8	72.0	75.7	64.7
57.5°	2062.8	186.7	67.6	73.5	62.5
60°	1879.1	110.2	66.9	71.3	56.6
62.5°	1664.5	83.8	65.4	63.2	53.6
65°	1466.8	74.2	63.2	56.6	50.7
67.5°	1254.4	66.9	58.8	54.4	49.2
70°	1050.9	60.3	55.8	50.7	44.8
72.5°	846.6	58.1	52.9	47.8	42.6
75°	650.4	55.8	50.0	44.8	40.4
77.5°	473.3	52.2	47.0	43.4	38.2
80°	307.2	47.8	44.8	40.4	34.5
82.5°	171.2	43.4	41.2	37.5	33.1
85°	92.6	35.3	36.0	34.5	30.1
87.5°	16.9	25.0	30.9	30.1	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)