

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-LD5-22-N-TWBWG-UNV-L840-CD2-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-LD5-22-N-TWBWG-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD
DISTRIBUION

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

Summary

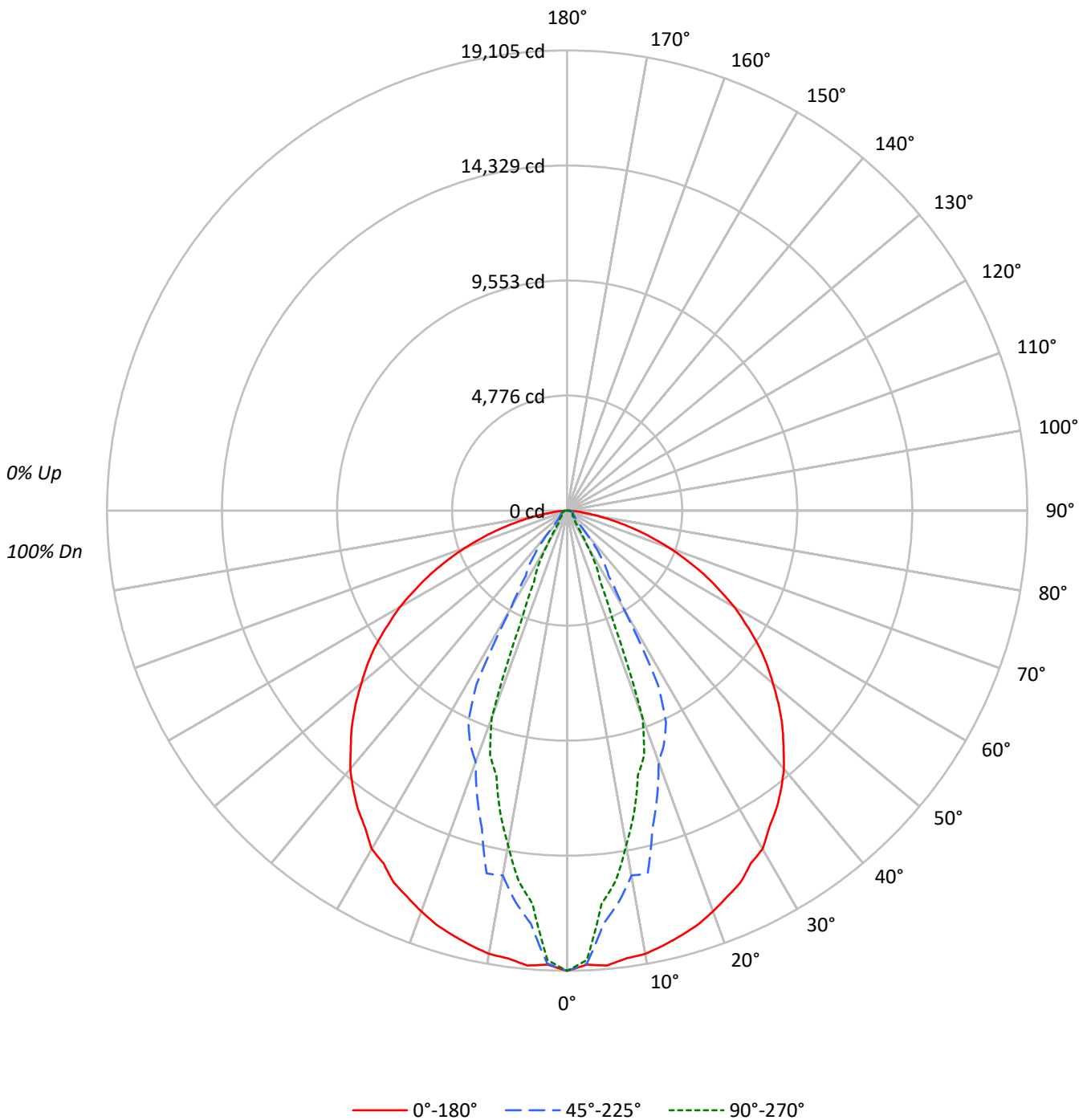
Lumens per Lamp: N/A
Luminaire Lumens: 18968.0 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 167.7
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	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°	28043	28043	28043
5°	27907	25199	23935
10°	27787	22589	20654
15°	27666	20317	16784
20°	27531	16819	13750
25°	27432	15121	5002
30°	27300	7536	2607
35°	26890	4562	993
40°	26556	2283	865
45°	25907	990	640
50°	25084	839	584
55°	24289	701	612
60°	23061	730	597
65°	21190	791	610
70°	18622	828	632
75°	15051	916	696
80°	10356	1088	770
85°	5828	1306	965



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1631.9	8.6
10°-20°	3956.3	20.9
20°-30°	4309.8	22.7
30°-40°	3315.4	17.5
40°-50°	2449.7	12.9
50°-60°	1541.3	8.1
60°-70°	1009.3	5.3
70°-80°	565.1	3.0
80°-90°	189.2	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°	9898.0	52.2
0°-40°	13213.5	69.7
0°-60°	17204.5	90.7
0°-90°	18968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18968.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19105	19105	19105	19105	19105	
5°	18961	18813	17231	16214	16400	###
15°	18267	15882	13678	11874	11368	5158
25°	17037	12730	9711	4325	3245	7832
35°	15138	9382	2699	860	596	9467
45°	12636	4997	518	436	342	9731
55°	9661	1281	308	323	276	8607
65°	6265	317	270	242	217	6179
75°	2778	238	213	192	173	2980
85°	396	151	154	148	129	504
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19105.2	19105.2	19105.2	19105.2	19105.2
2.5°	18869.8	18876.1	18829.0	18734.9	18675.2
5°	18960.8	18813.3	17231.4	16214.5	16399.7
7.5°	18753.7	17991.0	16399.7	15640.1	15492.6
10°	18684.6	16729.2	15385.9	15128.5	14124.1
12.5°	18486.9	15963.4	15432.9	13810.2	12846.7
15°	18267.2	15881.8	13678.4	11873.7	11368.3
17.5°	18028.6	15166.2	12429.2	10881.8	10640.2
20°	17705.4	14707.9	11104.7	10003.0	9152.4
22.5°	17357.0	14488.2	10505.2	6519.1	5053.3
25°	17036.8	12730.5	9711.1	4325.1	3245.4
27.5°	16509.5	12589.3	8157.5	3166.9	2677.3
30°	16223.9	11283.6	4667.2	2382.3	1635.3
32.5°	15605.6	10260.4	3195.2	1446.9	976.1
35°	15137.9	9381.5	2699.3	860.0	596.4
37.5°	14588.6	8800.9	2018.2	590.1	517.9
40°	14004.8	8116.7	1277.4	527.3	492.8
42.5°	13295.5	7310.0	756.4	495.9	423.7
45°	12636.4	4996.8	517.9	436.3	342.1
47.5°	11908.2	3408.6	442.6	370.4	295.0
50°	11148.6	2228.5	404.9	329.6	288.8
52.5°	10436.1	1826.7	351.5	329.6	288.8
55°	9660.9	1280.6	307.6	323.3	276.2
57.5°	8810.3	797.2	288.8	313.9	266.8
60°	8025.6	470.8	285.6	304.5	241.7
62.5°	7109.1	357.8	279.3	269.9	229.1
65°	6264.8	317.0	269.9	241.7	216.6
67.5°	5357.7	285.6	251.1	232.3	210.3
70°	4488.3	257.4	238.5	216.6	191.5
72.5°	3615.8	248.0	226.0	204.0	182.0
75°	2777.7	238.5	213.4	191.5	172.6
77.5°	2021.3	222.8	200.9	185.2	163.2
80°	1312.0	204.0	191.5	172.6	147.5
82.5°	731.3	185.2	175.8	160.1	141.2
85°	395.5	150.7	153.8	147.5	128.7
87.5°	72.2	106.7	131.8	128.7	113.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)