

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-WG-UNV-L850-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-WG-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

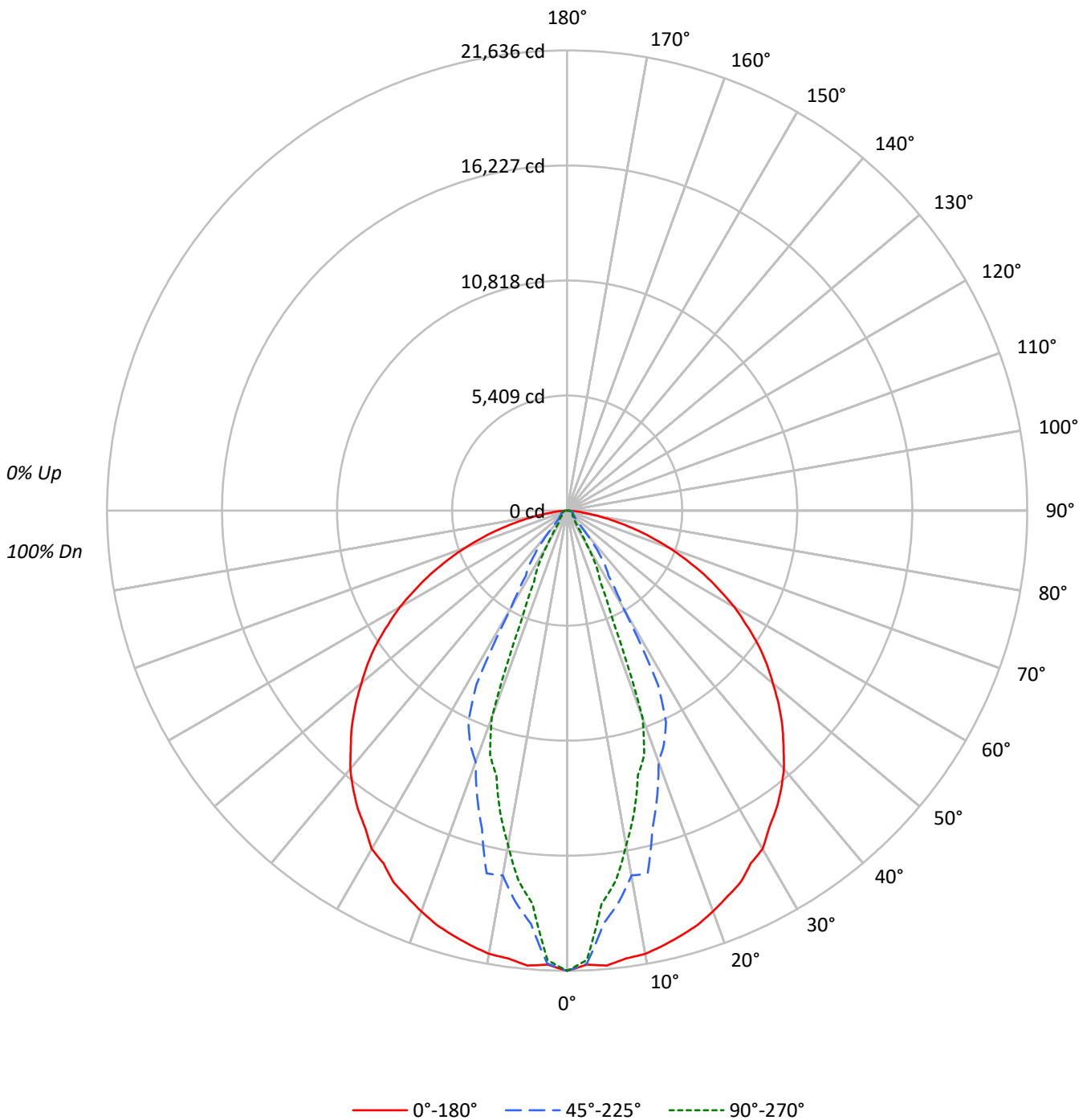
Lumens per Lamp: N/A
Luminaire Lumens: 21481.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 167.7
Input Voltage (V):
Input Current (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°	31758	31758	31758
5°	31604	28538	27106
10°	31469	25582	23390
15°	31331	23009	19008
20°	31178	19048	15572
25°	31066	17125	5664
30°	30917	8535	2953
35°	30452	5167	1124
40°	30074	2585	980
45°	29339	1121	725
50°	28408	950	661
55°	27507	794	693
60°	26116	827	676
65°	23998	896	690
70°	21090	938	716
75°	17045	1038	788
80°	11728	1232	873
85°	6600	1480	1092



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1848.1	8.6
10°-20°	4480.4	20.9
20°-30°	4880.8	22.7
30°-40°	3754.7	17.5
40°-50°	2774.2	12.9
50°-60°	1745.5	8.1
60°-70°	1143.0	5.3
70°-80°	639.9	3.0
80°-90°	214.3	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°	11209.4	52.2
0°-40°	14964.1	69.7
0°-60°	19483.8	90.7
0°-90°	21481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21481.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21636	21636	21636	21636	21636	
5°	21473	21306	19514	18363	18572	###
15°	20687	17986	15491	13447	12874	5841
25°	19294	14417	10998	4898	3675	8870
35°	17144	10624	3057	974	675	10721
45°	14310	5659	586	494	387	11021
55°	10941	1450	348	366	313	9747
65°	7095	359	306	274	245	6997
75°	3146	270	242	217	196	3375
85°	448	171	174	167	146	571
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21636.4	21636.4	21636.4	21636.4	21636.4
2.5°	21369.8	21376.9	21323.6	21217.0	21149.4
5°	21472.9	21305.8	19514.3	18362.7	18572.4
7.5°	21238.3	20374.5	18572.4	17712.2	17545.1
10°	21160.1	18945.6	17424.3	17132.8	15995.4
12.5°	20936.2	18078.3	17477.6	15639.9	14548.7
15°	20687.3	17985.9	15490.6	13446.8	12874.5
17.5°	20417.2	17175.5	14075.9	12323.5	12049.8
20°	20051.1	16656.5	12575.9	11328.3	10365.0
22.5°	19656.5	16407.7	11897.0	7382.7	5722.8
25°	19294.0	14417.2	10997.7	4898.1	3675.4
27.5°	18696.8	14257.2	9238.2	3586.5	3032.0
30°	18373.3	12778.5	5285.6	2697.9	1851.9
32.5°	17673.1	11619.7	3618.5	1638.6	1105.5
35°	17143.5	10624.5	3056.9	973.9	675.4
37.5°	16521.4	9966.9	2285.6	668.3	586.5
40°	15860.3	9192.0	1446.7	597.2	558.1
42.5°	15057.0	8278.5	856.6	561.6	479.9
45°	14310.5	5658.8	586.5	494.1	387.4
47.5°	13485.9	3860.2	501.2	419.4	334.1
50°	12625.7	2523.7	458.5	373.2	327.0
52.5°	11818.8	2068.7	398.1	373.2	327.0
55°	10940.8	1450.2	348.3	366.1	312.8
57.5°	9977.6	902.8	327.0	355.5	302.1
60°	9088.9	533.2	323.5	344.8	273.7
62.5°	8051.0	405.2	316.4	305.7	259.5
65°	7094.8	359.0	305.7	273.7	245.3
67.5°	6067.6	323.5	284.4	263.0	238.2
70°	5083.0	291.5	270.1	245.3	216.8
72.5°	4094.8	280.8	255.9	231.0	206.2
75°	3145.8	270.1	241.7	216.8	195.5
77.5°	2289.1	252.4	227.5	209.7	184.8
80°	1485.8	231.0	216.8	195.5	167.1
82.5°	828.2	209.7	199.1	181.3	160.0
85°	447.9	170.6	174.2	167.1	145.7
87.5°	81.8	120.9	149.3	145.7	128.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)