

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-LD5-10-N-WG-UNV-L840-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: 8ILED-LD5-10-N-WG-UNV-L840-CD1-U
Description: Metalux 8' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

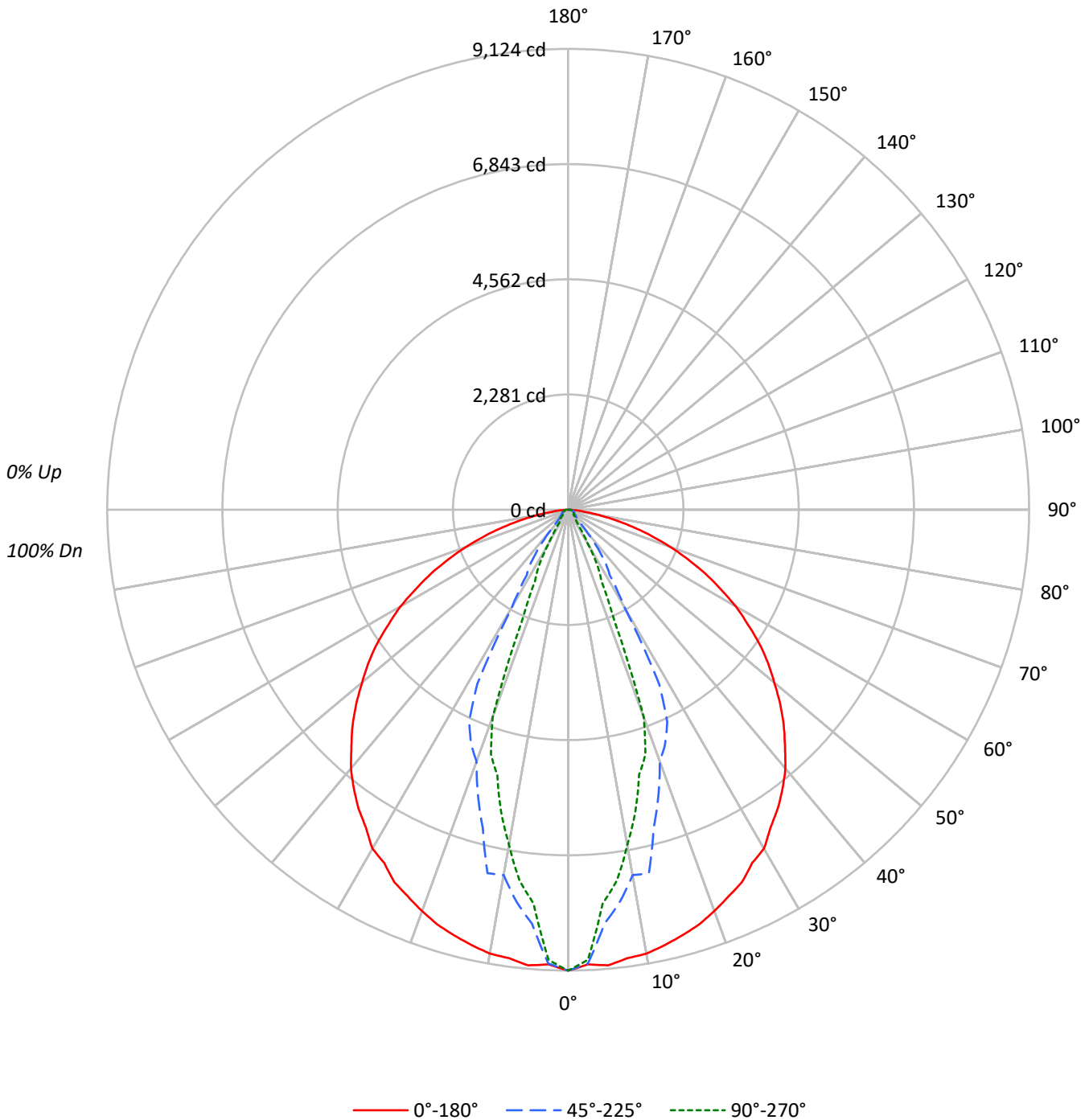
Lumens per Lamp: N/A
Luminaire Lumens: 9059.0 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 67
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°	13393	13393	13393
5°	13328	12035	11431
10°	13271	10789	9864
15°	13213	9703	8016
20°	13149	8033	6567
25°	13101	7222	2389
30°	13038	3599	1245
35°	12842	2179	474
40°	12683	1090	413
45°	12373	473	306
50°	11980	401	279
55°	11600	335	292
60°	11014	349	285
65°	10120	378	291
70°	8894	395	302
75°	7188	438	332
80°	4946	519	368
85°	2784	624	461



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	779.4	8.6
10°-20°	1889.5	20.9
20°-30°	2058.3	22.7
30°-40°	1583.4	17.5
40°-50°	1170.0	12.9
50°-60°	736.1	8.1
60°-70°	482.0	5.3
70°-80°	269.8	3.0
80°-90°	90.4	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°	4727.2	52.2
0°-40°	6310.7	69.7
0°-60°	8216.7	90.7
0°-90°	9059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9124	9124	9124	9124	9124	
5°	9056	8985	8230	7744	7832	858
15°	8724	7585	6533	5671	5429	2463
25°	8137	6080	4638	2066	1550	3741
35°	7230	4481	1289	411	285	4521
45°	6035	2386	247	208	163	4648
55°	4614	612	147	154	132	4111
65°	2992	151	129	115	103	2951
75°	1327	114	102	91	82	1423
85°	189	72	74	70	62	241
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9124.5	9124.5	9124.5	9124.5	9124.5
2.5°	9012.1	9015.1	8992.6	8947.6	8919.2
5°	9055.6	8985.1	8229.6	7743.9	7832.4
7.5°	8956.6	8592.4	7832.4	7469.6	7399.2
10°	8923.7	7989.8	7348.2	7225.3	6745.6
12.5°	8829.2	7624.0	7370.7	6595.7	6135.5
15°	8724.3	7585.0	6532.7	5670.8	5429.4
17.5°	8610.4	7243.3	5936.1	5197.1	5081.7
20°	8456.0	7024.4	5303.5	4777.4	4371.1
22.5°	8289.6	6919.5	5017.2	3113.5	2413.4
25°	8136.7	6080.0	4638.0	2065.6	1550.0
27.5°	7884.8	6012.6	3896.0	1512.5	1278.7
30°	7748.4	5389.0	2229.0	1137.8	781.0
32.5°	7453.1	4900.3	1526.0	691.0	466.2
35°	7229.8	4480.6	1289.2	410.7	284.8
37.5°	6967.4	4203.3	963.9	281.8	247.3
40°	6688.6	3876.5	610.1	251.8	235.3
42.5°	6349.8	3491.2	361.3	236.8	202.4
45°	6035.1	2386.4	247.3	208.4	163.4
47.5°	5687.3	1627.9	211.4	176.9	140.9
50°	5324.5	1064.3	193.4	157.4	137.9
52.5°	4984.2	872.4	167.9	157.4	137.9
55°	4614.0	611.6	146.9	154.4	131.9
57.5°	4207.7	380.8	137.9	149.9	127.4
60°	3833.0	224.9	136.4	145.4	115.4
62.5°	3395.3	170.9	133.4	128.9	109.4
65°	2992.0	151.4	128.9	115.4	103.4
67.5°	2558.8	136.4	119.9	110.9	100.4
70°	2143.6	122.9	113.9	103.4	91.4
72.5°	1726.9	118.4	107.9	97.4	86.9
75°	1326.6	113.9	101.9	91.4	82.4
77.5°	965.4	106.4	95.9	88.4	77.9
80°	626.6	97.4	91.4	82.4	70.5
82.5°	349.3	88.4	83.9	76.5	67.5
85°	188.9	72.0	73.5	70.5	61.5
87.5°	34.5	51.0	63.0	61.5	54.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)