

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-LD5-18-N-WG-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-LD5-18-N-WG-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

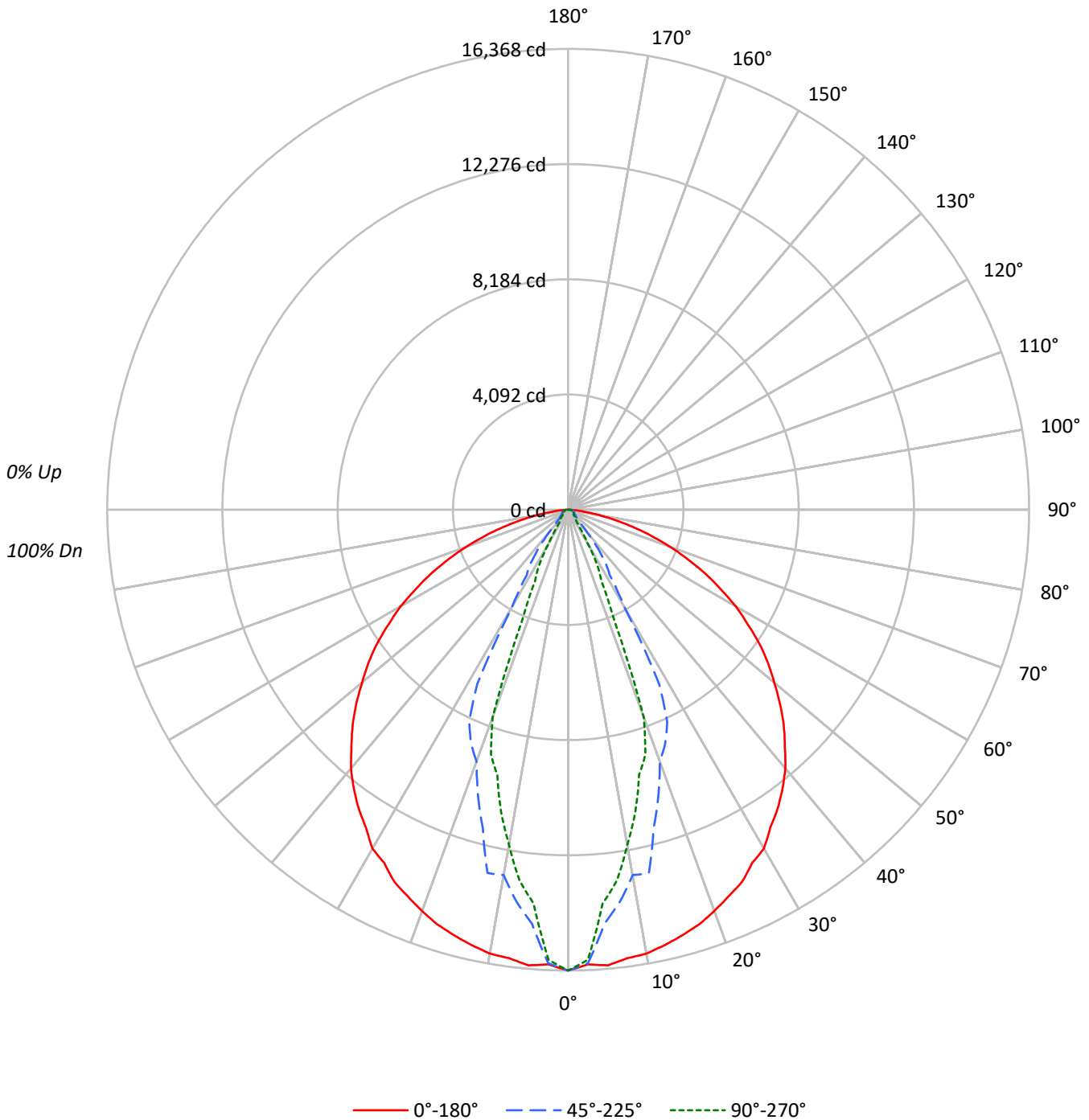
Lumens per Lamp: N/A
Luminaire Lumens: 16250.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 131.3
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°	24024	24024	24024
5°	23908	21589	20505
10°	23805	19353	17694
15°	23702	17406	14379
20°	23586	14409	11780
25°	23501	12955	4285
30°	23388	6456	2234
35°	23036	3908	850
40°	22751	1956	741
45°	22194	848	549
50°	21490	719	500
55°	20808	601	524
60°	19756	625	511
65°	18154	678	522
70°	15954	710	542
75°	12894	785	596
80°	8872	932	660
85°	4992	1120	826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1398.1	8.6
10°-20°	3389.4	20.9
20°-30°	3692.2	22.7
30°-40°	2840.4	17.5
40°-50°	2098.7	12.9
50°-60°	1320.4	8.1
60°-70°	864.6	5.3
70°-80°	484.1	3.0
80°-90°	162.1	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°	8479.7	52.2
0°-40°	11320.1	69.7
0°-60°	14739.2	90.7
0°-90°	16250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16368	16368	16368	16368	16368	
5°	16244	16118	14762	13891	14050	###
15°	15650	13606	11718	10172	9739	4419
25°	14596	10906	8320	3705	2780	6710
35°	12969	8037	2312	737	511	8110
45°	10826	4281	444	374	293	8337
55°	8276	1097	264	277	237	7373
65°	5367	272	231	207	186	5293
75°	2380	204	183	164	148	2553
85°	339	129	132	126	110	432
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16367.6	16367.6	16367.6	16367.6	16367.6
2.5°	16165.9	16171.3	16130.9	16050.3	15999.2
5°	16243.9	16117.5	14762.3	13891.0	14049.7
7.5°	16066.4	15413.0	14049.7	13399.0	13272.6
10°	16007.2	14332.0	13181.2	12960.7	12100.2
12.5°	15837.8	13675.9	13221.5	11831.3	11005.8
15°	15649.6	13606.0	11718.4	10172.2	9739.3
17.5°	15445.2	12992.9	10648.2	9322.5	9115.5
20°	15168.3	12600.4	9513.5	8569.6	7840.9
22.5°	14869.8	12412.1	8999.9	5584.9	4329.2
25°	14595.5	10906.3	8319.6	3705.4	2780.4
27.5°	14143.8	10785.3	6988.5	2713.1	2293.7
30°	13899.1	9666.7	3998.4	2040.9	1400.9
32.5°	13369.4	8790.1	2737.3	1239.6	836.3
35°	12968.7	8037.2	2312.5	736.8	510.9
37.5°	12498.2	7539.8	1729.0	505.5	443.7
40°	11998.0	6953.6	1094.4	451.7	422.2
42.5°	11390.3	6262.5	648.0	424.9	363.0
45°	10825.7	4280.8	443.7	373.8	293.1
47.5°	10201.8	2920.2	379.1	317.3	252.8
50°	9551.1	1909.1	346.9	282.3	247.4
52.5°	8940.7	1565.0	301.2	282.3	247.4
55°	8276.5	1097.1	263.5	277.0	236.6
57.5°	7547.8	683.0	247.4	268.9	228.6
60°	6875.6	403.3	244.7	260.8	207.0
62.5°	6090.4	306.5	239.3	231.2	196.3
65°	5367.1	271.6	231.2	207.0	185.5
67.5°	4590.0	244.7	215.1	199.0	180.2
70°	3845.2	220.5	204.4	185.5	164.0
72.5°	3097.7	212.4	193.6	174.8	156.0
75°	2379.7	204.4	182.8	164.0	147.9
77.5°	1731.7	190.9	172.1	158.6	139.8
80°	1124.0	174.8	164.0	147.9	126.4
82.5°	626.5	158.6	150.6	137.1	121.0
85°	338.8	129.1	131.8	126.4	110.2
87.5°	61.8	91.4	112.9	110.2	96.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)