

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-LD5-16-N-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 (P34185)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-16-N-UNV-L840-CD2-U
Description: Metalux 4' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

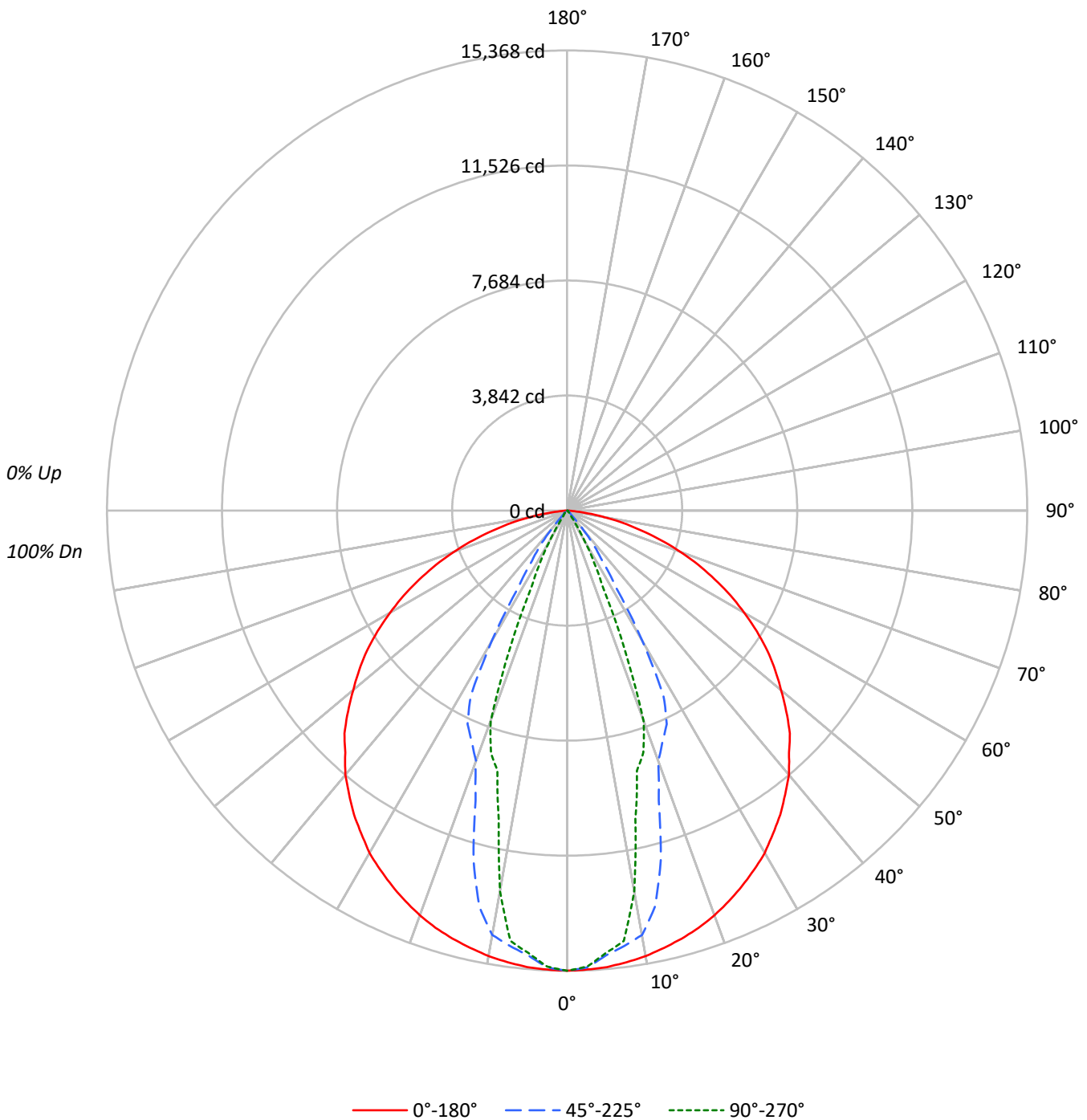
Lumens per Lamp: N/A
Luminaire Lumens: 15457.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 126.6
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48					48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	45114	45114	45114
5°	44996	43571	43292
10°	44834	42193	37725
15°	44672	35801	26564
20°	44530	26874	22460
25°	44273	24417	8721
30°	44112	16158	3717
35°	43694	6875	821
40°	43242	3030	586
45°	42607	724	271
50°	41365	446	147
55°	40356	284	150
60°	38432	256	155
65°	35888	265	163
70°	32260	280	176
75°	26493	324	195
80°	18798	373	177
85°	6017	391	217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1411.7	9.1
10°-20°	3369.4	21.8
20°-30°	3684.0	23.8
30°-40°	2666.1	17.2
40°-50°	1989.7	12.9
50°-60°	1161.8	7.5
60°-70°	722.3	4.7
70°-80°	376.7	2.4
80°-90°	75.3	0.5
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°	8465.1	54.8
0°-40°	11131.2	72.0
0°-60°	14282.8	92.4
0°-90°	15457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15368	15368	15368	15368	15368	
5°	15303	15247	14908	14863	14831	###
15°	14797	14277	12079	9446	8996	4179
25°	13828	11738	7871	4104	2829	6378
35°	12406	7567	2046	442	247	7756
45°	10519	4945	191	131	72	8077
55°	8166	958	63	72	34	7271
65°	5444	80	46	44	29	5382
75°	2554	48	39	31	24	2737
85°	230	31	24	22	14	435
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15368.0	15368.0	15368.0	15368.0	15368.0
2.5°	15343.8	15363.2	15271.3	15271.3	15244.7
5°	15302.7	15247.1	14908.5	14862.6	14831.2
7.5°	15213.2	14995.6	14664.3	14603.8	14499.9
10°	15106.8	14724.8	14391.0	13530.1	12899.0
12.5°	14956.9	14499.9	13554.3	11421.4	10546.0
15°	14797.3	14277.4	12079.2	9445.7	8995.9
17.5°	14608.7	13982.4	10161.5	8662.2	8468.7
20°	14383.8	13503.5	8899.2	8122.9	7474.8
22.5°	14120.2	12761.1	8328.5	6751.8	5003.4
25°	13827.6	11738.2	7871.4	4103.8	2829.4
27.5°	13520.5	10529.1	6967.0	2493.2	1932.2
30°	13201.3	9286.1	5027.6	1787.1	1165.6
32.5°	12792.6	8270.4	3049.4	1006.0	519.9
35°	12405.7	7566.7	2045.8	442.5	246.7
37.5°	11958.3	7080.7	1494.5	234.6	174.1
40°	11520.6	6606.7	853.6	176.5	166.9
42.5°	10969.2	6016.6	360.3	166.9	118.5
45°	10519.4	4945.3	191.0	130.6	72.5
47.5°	9924.5	3385.6	128.2	101.6	45.9
50°	9327.2	2091.8	108.8	79.8	36.3
52.5°	8758.9	1385.7	79.8	75.0	33.9
55°	8166.5	957.6	62.9	72.5	33.9
57.5°	7508.7	471.6	53.2	70.1	31.4
60°	6829.2	183.8	50.8	67.7	31.4
62.5°	6156.9	101.6	48.4	55.6	29.0
65°	5443.5	79.8	45.9	43.5	29.0
67.5°	4737.4	65.3	43.5	41.1	29.0
70°	4016.7	58.0	41.1	36.3	26.6
72.5°	3281.6	53.2	38.7	36.3	24.2
75°	2553.7	48.4	38.7	31.4	24.2
77.5°	1910.4	45.9	36.3	31.4	19.3
80°	1269.6	41.1	33.9	26.6	16.9
82.5°	701.3	38.7	29.0	24.2	16.9
85°	229.7	31.4	24.2	21.8	14.5
87.5°	36.3	21.8	19.3	19.3	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)