

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-L835-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-L835-CD2-U
Description: Metalux 4' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

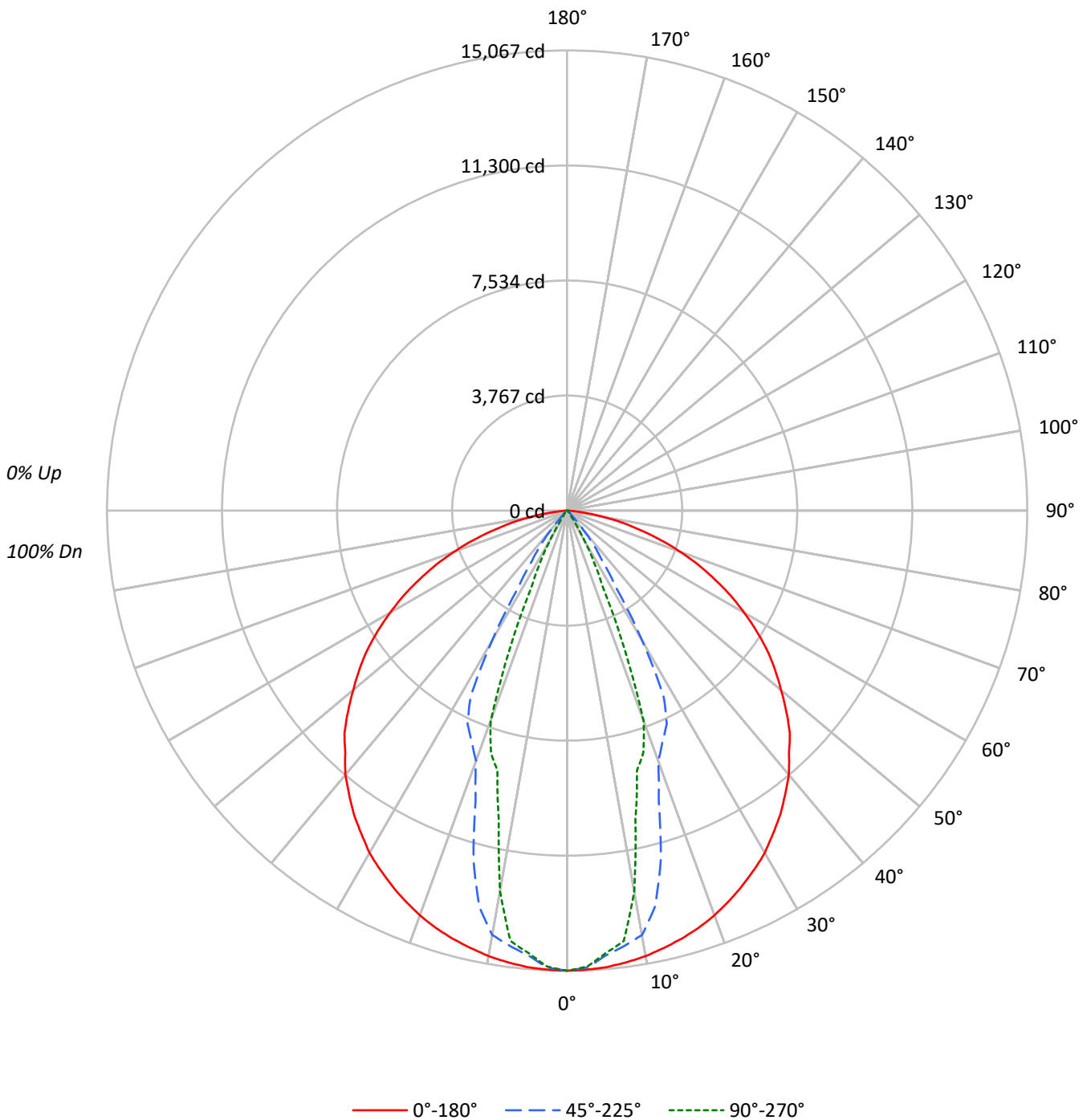
Lumens per Lamp: N/A
Luminaire Lumens: 15154.0 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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°	44230	44230	44230
5°	44114	42717	42443
10°	43955	41366	36985
15°	43796	35099	26043
20°	43657	26347	22019
25°	43405	23938	8550
30°	43248	15841	3644
35°	42837	6740	805
40°	42394	2971	574
45°	41772	710	266
50°	40554	438	144
55°	39565	278	147
60°	37678	251	152
65°	35184	260	160
70°	31628	274	172
75°	25973	318	191
80°	18429	365	173
85°	5899	383	213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1384.0	9.1
10°-20°	3303.3	21.8
20°-30°	3611.8	23.8
30°-40°	2613.9	17.2
40°-50°	1950.7	12.9
50°-60°	1139.1	7.5
60°-70°	708.1	4.7
70°-80°	369.3	2.4
80°-90°	73.8	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°	8299.1	54.8
0°-40°	10913.0	72.0
0°-60°	14002.8	92.4
0°-90°	15154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15154.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15067	15067	15067	15067	15067	
5°	15003	14948	14616	14571	14540	###
15°	14507	13998	11842	9260	8820	4097
25°	13556	11508	7717	4023	2774	6253
35°	12162	7418	2006	434	242	7604
45°	10313	4848	187	128	71	7919
55°	8006	939	62	71	33	7128
65°	5337	78	45	43	28	5277
75°	2504	47	38	31	24	2683
85°	225	31	24	21	14	427
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15066.8	15066.8	15066.8	15066.8	15066.8
2.5°	15043.1	15062.0	14971.9	14971.9	14945.8
5°	15002.7	14948.2	14616.3	14571.3	14540.4
7.5°	14915.0	14701.7	14376.8	14317.6	14215.6
10°	14810.7	14436.1	14108.9	13264.9	12646.1
12.5°	14663.7	14215.6	13288.6	11197.5	10339.3
15°	14507.2	13997.5	11842.4	9260.5	8819.6
17.5°	14322.3	13708.3	9962.3	8492.4	8302.7
20°	14101.8	13238.8	8724.7	7963.7	7328.3
22.5°	13843.4	12511.0	8165.2	6619.4	4905.3
25°	13556.5	11508.1	7717.1	4023.3	2773.9
27.5°	13255.4	10322.7	6830.4	2444.3	1894.3
30°	12942.5	9104.1	4929.0	1752.1	1142.8
32.5°	12541.8	8108.3	2989.6	986.3	509.7
35°	12162.5	7418.4	2005.7	433.9	241.8
37.5°	11723.9	6941.9	1465.2	230.0	170.7
40°	11294.7	6477.2	836.9	173.1	163.6
42.5°	10754.2	5898.7	353.3	163.6	116.2
45°	10313.2	4848.4	187.3	128.0	71.1
47.5°	9730.0	3319.2	125.7	99.6	45.0
50°	9144.4	2050.8	106.7	78.2	35.6
52.5°	8587.2	1358.5	78.2	73.5	33.2
55°	8006.4	938.9	61.6	71.1	33.2
57.5°	7361.5	462.3	52.2	68.8	30.8
60°	6695.3	180.2	49.8	66.4	30.8
62.5°	6036.2	99.6	47.4	54.5	28.5
65°	5336.8	78.2	45.0	42.7	28.5
67.5°	4644.5	64.0	42.7	40.3	28.5
70°	3938.0	56.9	40.3	35.6	26.1
72.5°	3217.2	52.2	37.9	35.6	23.7
75°	2503.6	47.4	37.9	30.8	23.7
77.5°	1873.0	45.0	35.6	30.8	19.0
80°	1244.7	40.3	33.2	26.1	16.6
82.5°	687.5	37.9	28.5	23.7	16.6
85°	225.2	30.8	23.7	21.3	14.2
87.5°	35.6	21.3	19.0	19.0	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)