

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-LD5-5-N-UNV-L835-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 (P34185)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-5-N-UNV-L835-CD1-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: 4697.0 lumens
Efficiency: N/A
Efficacy: 140.2 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

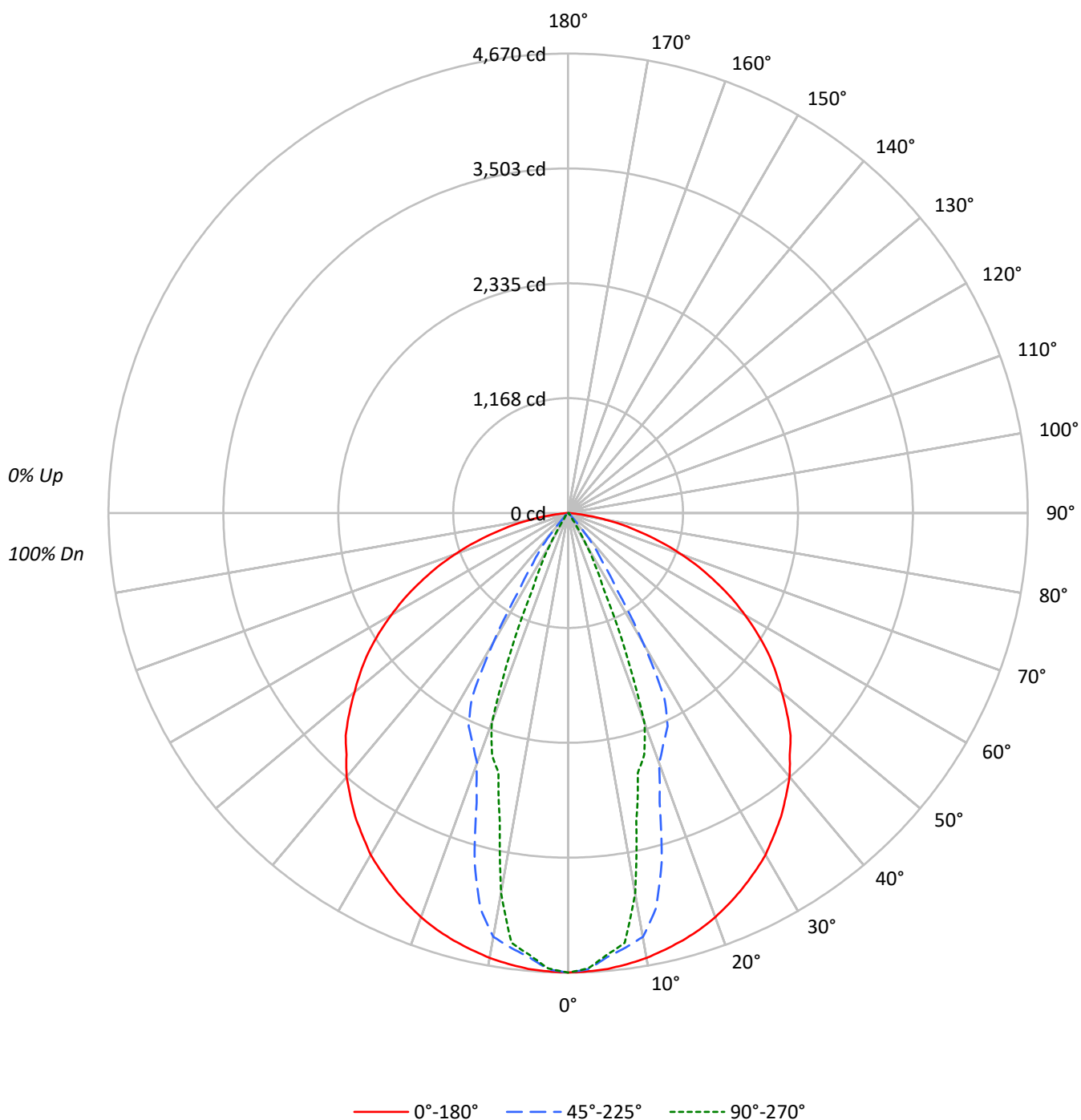
Input Watts (W): 33.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		90
2	105	99	94	89	102	97	92	88	93	90	86		90	87	84		81
3	98	90	84	79	96	89	83	78	86	81	77		83	79	76		73
4	92	83	76	71	90	81	75	70	79	74	70		77	72	69		66
5	86	76	69	64	85	75	69	64	73	68	63		72	67	63		60
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		55
7	77	66	59	54	75	65	58	54	64	58	53		62	57	53		51
8	73	62	55	50	71	61	54	50	60	54	50		59	53	49		48
9	69	58	51	46	67	57	51	46	56	50	46		55	50	46		44
10	65	54	48	43	64	54	48	43	53	47	43		52	47	43		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13709	13709	13709
5°	13673	13240	13155
10°	13624	12821	11464
15°	13575	10879	8072
20°	13532	8166	6825
25°	13453	7420	2650
30°	13405	4910	1130
35°	13277	2089	250
40°	13140	921	178
45°	12947	220	82
50°	12570	136	44
55°	12263	86	46
60°	11678	78	47
65°	10905	81	50
70°	9803	85	53
75°	8051	99	59
80°	5712	113	53
85°	1829	118	66



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.0	9.1
10°-20°	1023.9	21.8
20°-30°	1119.5	23.8
30°-40°	810.2	17.2
40°-50°	604.6	12.9
50°-60°	353.0	7.5
60°-70°	219.5	4.7
70°-80°	114.5	2.4
80°-90°	22.9	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°	2572.3	54.8
0°-40°	3382.5	72.0
0°-60°	4340.2	92.4
0°-90°	4697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4670	4670	4670	4670	4670	
5°	4650	4633	4530	4516	4507	442
15°	4496	4338	3671	2870	2734	1270
25°	4202	3567	2392	1247	860	1938
35°	3770	2299	622	134	75	2357
45°	3197	1503	58	40	22	2455
55°	2482	291	19	22	10	2209
65°	1654	24	14	13	9	1636
75°	776	15	12	10	7	832
85°	70	10	7	7	4	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4670.0	4670.0	4670.0	4670.0	4670.0
2.5°	4662.6	4668.5	4640.6	4640.6	4632.5
5°	4650.1	4633.2	4530.3	4516.4	4506.8
7.5°	4622.9	4556.8	4456.1	4437.7	4406.2
10°	4590.6	4474.5	4373.1	4111.5	3919.7
12.5°	4545.0	4406.2	4118.8	3470.7	3204.7
15°	4496.5	4338.5	3670.6	2870.3	2733.6
17.5°	4439.2	4248.9	3087.8	2632.2	2573.4
20°	4370.9	4103.4	2704.2	2468.4	2271.4
22.5°	4290.8	3877.8	2530.8	2051.7	1520.4
25°	4201.9	3567.0	2391.9	1247.0	859.8
27.5°	4108.5	3199.5	2117.1	757.6	587.1
30°	4011.5	2821.8	1527.7	543.1	354.2
32.5°	3887.3	2513.2	926.6	305.7	158.0
35°	3769.8	2299.3	621.7	134.5	75.0
37.5°	3633.8	2151.6	454.1	71.3	52.9
40°	3500.8	2007.6	259.4	53.6	50.7
42.5°	3333.3	1828.3	109.5	50.7	36.0
45°	3196.6	1502.8	58.1	39.7	22.0
47.5°	3015.8	1028.8	38.9	30.9	14.0
50°	2834.3	635.6	33.1	24.2	11.0
52.5°	2661.6	421.1	24.2	22.8	10.3
55°	2481.6	291.0	19.1	22.0	10.3
57.5°	2281.7	143.3	16.2	21.3	9.6
60°	2075.2	55.8	15.4	20.6	9.6
62.5°	1870.9	30.9	14.7	16.9	8.8
65°	1654.1	24.2	14.0	13.2	8.8
67.5°	1439.6	19.8	13.2	12.5	8.8
70°	1220.6	17.6	12.5	11.0	8.1
72.5°	997.2	16.2	11.8	11.0	7.3
75°	776.0	14.7	11.8	9.6	7.3
77.5°	580.5	14.0	11.0	9.6	5.9
80°	385.8	12.5	10.3	8.1	5.1
82.5°	213.1	11.8	8.8	7.3	5.1
85°	69.8	9.6	7.3	6.6	4.4
87.5°	11.0	6.6	5.9	5.9	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)