

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-TWB-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-TWB-UNV-L835-CD2-U
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

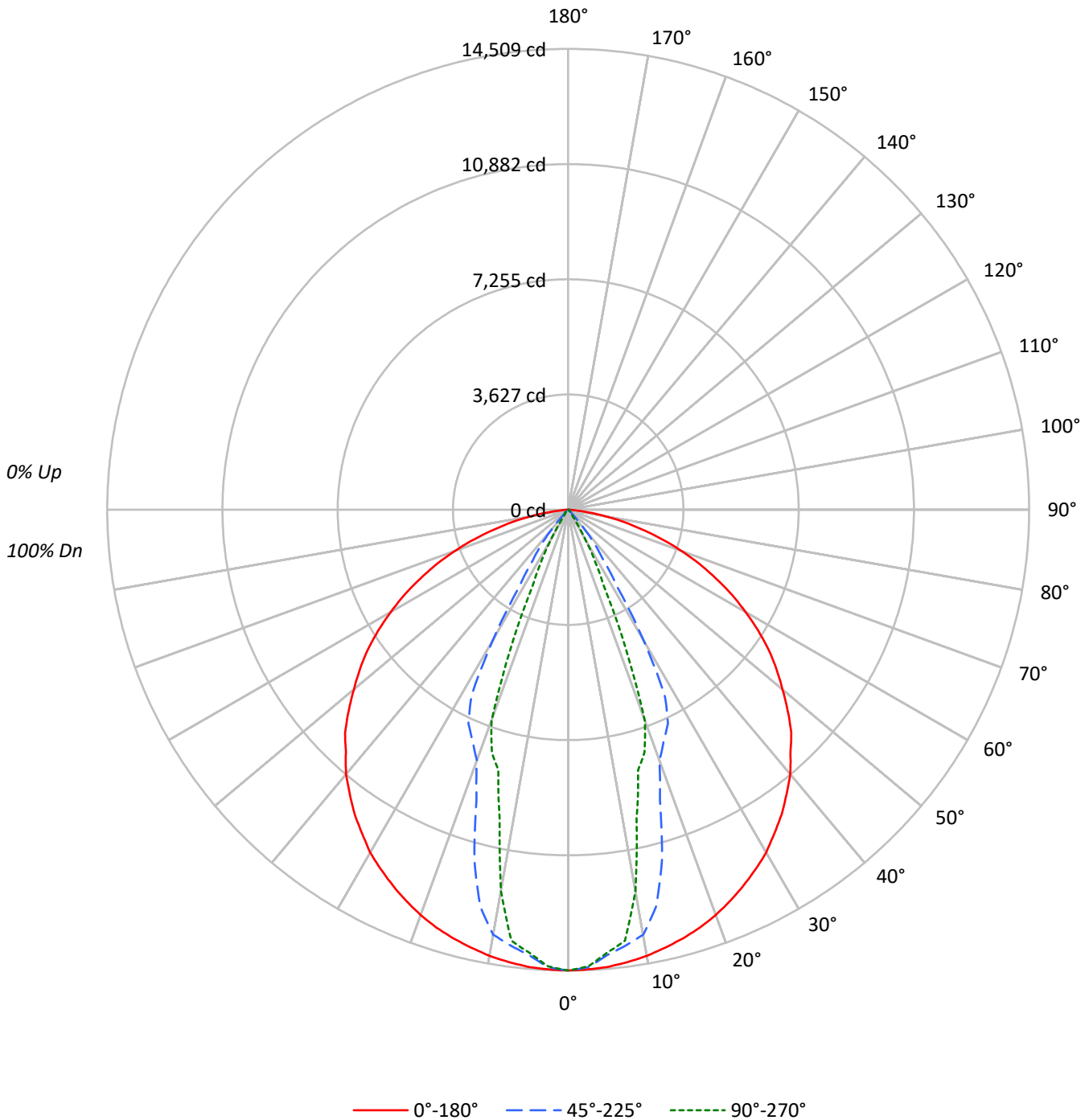
Lumens per Lamp: N/A
Luminaire Lumens: 14593.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	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°	42593	42593	42593
5°	42481	41136	40872
10°	42328	39834	35616
15°	42175	33800	25079
20°	42041	25371	21204
25°	41798	23052	8233
30°	41646	15254	3509
35°	41251	6491	775
40°	40825	2861	553
45°	40225	684	256
50°	39053	421	138
55°	38100	268	142
60°	36283	242	147
65°	33882	251	154
70°	30457	264	166
75°	25012	306	184
80°	17747	352	167
85°	5682	369	205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1332.8	9.1
10°-20°	3181.0	21.8
20°-30°	3478.1	23.8
30°-40°	2517.1	17.2
40°-50°	1878.5	12.9
50°-60°	1096.9	7.5
60°-70°	681.9	4.7
70°-80°	355.6	2.4
80°-90°	71.1	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°	7991.9	54.8
0°-40°	10509.0	72.0
0°-60°	13484.4	92.4
0°-90°	14593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14509	14509	14509	14509	14509	
5°	14447	14395	14075	14032	14002	###
15°	13970	13479	11404	8918	8493	3945
25°	13055	11082	7431	3874	2671	6022
35°	11712	7144	1932	418	233	7323
45°	9931	4669	180	123	68	7626
55°	7710	904	59	68	32	6864
65°	5139	75	43	41	27	5081
75°	2411	46	36	30	23	2584
85°	217	30	23	20	14	411
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14509.0	14509.0	14509.0	14509.0	14509.0
2.5°	14486.2	14504.4	14417.7	14417.7	14392.6
5°	14447.3	14394.8	14075.2	14031.8	14002.1
7.5°	14362.9	14157.4	13844.6	13787.5	13689.4
10°	14262.4	13901.7	13586.6	12773.8	12178.0
12.5°	14120.9	13689.4	12796.7	10783.0	9956.5
15°	13970.2	13479.3	11404.0	8917.7	8493.1
17.5°	13792.1	13200.8	9593.5	8178.0	7995.4
20°	13579.8	12748.7	8401.7	7668.9	7057.0
22.5°	13330.9	12047.8	7862.9	6374.4	4723.7
25°	13054.7	11082.1	7431.4	3874.4	2671.2
27.5°	12764.7	9940.5	6577.6	2353.9	1824.2
30°	12463.3	8767.0	4746.5	1687.2	1100.4
32.5°	12077.5	7808.1	2879.0	949.8	490.9
35°	11712.2	7143.8	1931.5	417.8	232.9
37.5°	11289.8	6684.9	1410.9	221.5	164.4
40°	10876.6	6237.4	805.9	166.7	157.5
42.5°	10356.1	5680.3	340.2	157.5	111.9
45°	9931.4	4668.9	180.4	123.3	68.5
47.5°	9369.8	3196.3	121.0	95.9	43.4
50°	8805.9	1974.9	102.7	75.3	34.2
52.5°	8269.3	1308.2	75.3	70.8	32.0
55°	7710.0	904.1	59.4	68.5	32.0
57.5°	7089.0	445.2	50.2	66.2	29.7
60°	6447.4	173.5	47.9	63.9	29.7
62.5°	5812.7	95.9	45.7	52.5	27.4
65°	5139.2	75.3	43.4	41.1	27.4
67.5°	4472.6	61.6	41.1	38.8	27.4
70°	3792.2	54.8	38.8	34.2	25.1
72.5°	3098.1	50.2	36.5	34.2	22.8
75°	2410.9	45.7	36.5	29.7	22.8
77.5°	1803.6	43.4	34.2	29.7	18.3
80°	1198.6	38.8	32.0	25.1	16.0
82.5°	662.1	36.5	27.4	22.8	16.0
85°	216.9	29.7	22.8	20.5	13.7
87.5°	34.2	20.5	18.3	18.3	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)