

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-LD5-32-N-TWB-UNV-L840-CD4-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: 8ILED-LD5-32-N-TWB-UNV-L840-CD4-U
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

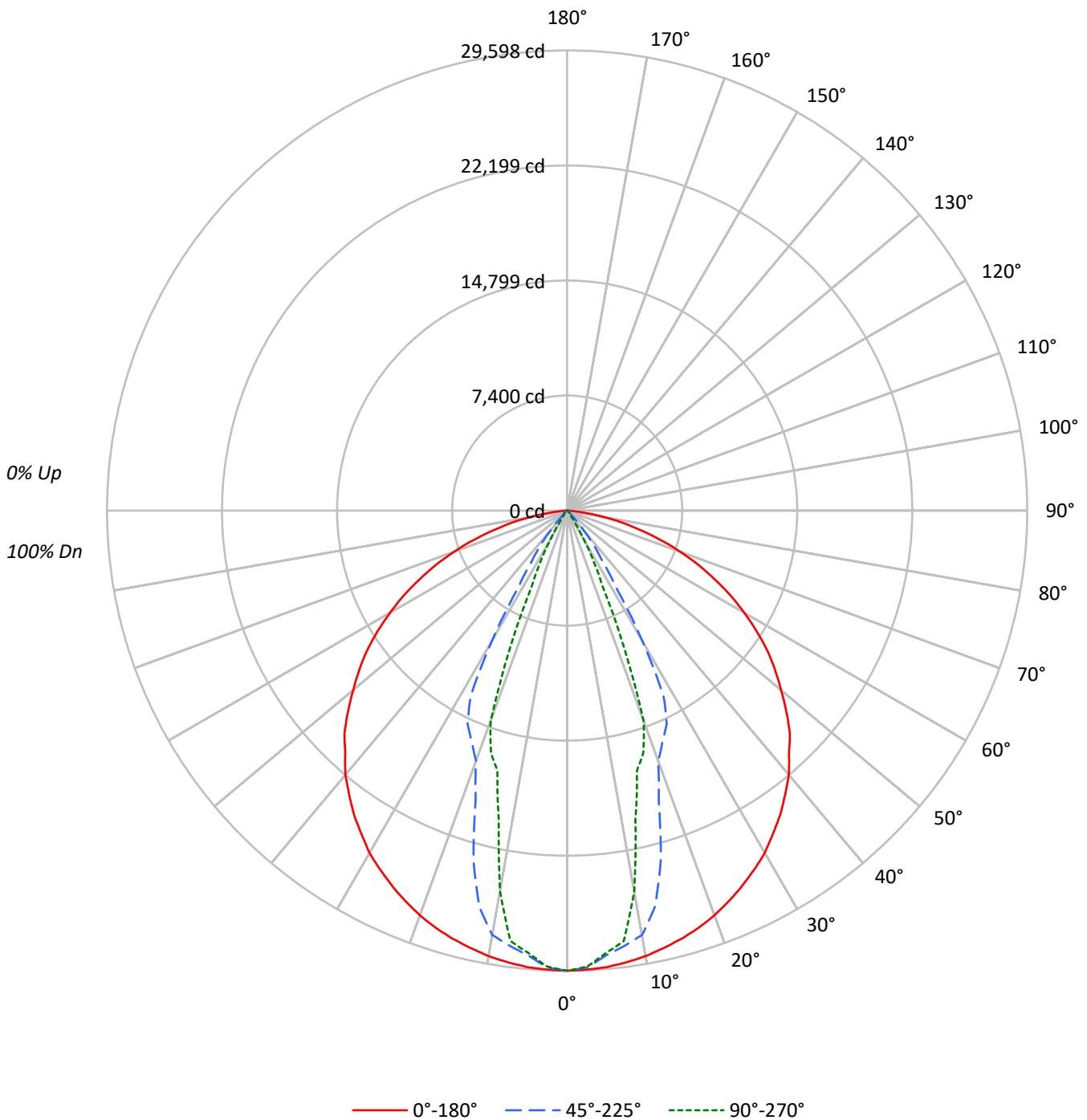
Lumens per Lamp: N/A
Luminaire Lumens: 29769.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 253.2
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°	43444	43444	43444
5°	43377	41990	41688
10°	43269	40692	36328
15°	43161	34555	25580
20°	43075	25959	21628
25°	42880	23606	8398
30°	42783	15635	3579
35°	42440	6659	791
40°	42072	2938	564
45°	41536	703	261
50°	40418	434	141
55°	39543	276	144
60°	37792	250	149
65°	35461	260	157
70°	32097	275	169
75°	26649	320	188
80°	19300	370	170
85°	6521	396	209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2718.8	9.1
10°-20°	6489.1	21.8
20°-30°	7095.2	23.8
30°-40°	5134.8	17.2
40°-50°	3832.0	12.9
50°-60°	2237.6	7.5
60°-70°	1391.0	4.7
70°-80°	725.5	2.4
80°-90°	145.0	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°	16303.1	54.8
0°-40°	21437.9	72.0
0°-60°	27507.5	92.4
0°-90°	29769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29769.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29598	29598	29598	29598	29598	
5°	29472	29365	28713	28624	28564	###
15°	28498	27497	23264	18192	17325	8048
25°	26631	22607	15160	7904	5449	12284
35°	23892	14573	3940	852	475	14938
45°	20260	9524	368	252	140	15556
55°	15728	1844	121	140	65	14003
65°	10484	154	88	84	56	10366
75°	4918	93	74	60	47	5271
85°	442	60	47	42	28	838
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29597.6	29597.6	29597.6	29597.6	29597.6
2.5°	29551.1	29588.3	29411.3	29411.3	29360.1
5°	29471.9	29364.8	28712.7	28624.2	28563.7
7.5°	29299.6	28880.4	28242.3	28125.9	27925.6
10°	29094.6	28358.8	27716.0	26058.0	24842.4
12.5°	28805.9	27925.6	26104.6	21996.8	20310.8
15°	28498.5	27497.2	23263.6	18191.7	17325.4
17.5°	28135.2	26929.0	19570.3	16682.7	16310.1
20°	27702.1	26006.8	17139.1	15644.1	14396.0
22.5°	27194.4	24577.0	16040.0	13003.4	9636.1
25°	26630.9	22606.9	15159.8	7903.6	5449.1
27.5°	26039.4	20278.2	13417.9	4801.8	3721.2
30°	25424.6	17884.3	9682.7	3441.8	2244.9
32.5°	24637.5	15928.2	5873.0	1937.5	1001.3
35°	23892.3	14572.9	3940.1	852.3	475.1
37.5°	23030.7	13636.8	2878.3	451.8	335.3
40°	22187.7	12724.0	1644.1	340.0	321.4
42.5°	21125.9	11587.6	693.9	321.4	228.2
45°	20259.6	9524.3	367.9	251.5	139.7
47.5°	19113.9	6520.3	246.8	195.6	88.5
50°	17963.5	4028.6	209.6	153.7	69.9
52.5°	16869.0	2668.7	153.7	144.4	65.2
55°	15728.0	1844.3	121.1	139.7	65.2
57.5°	14461.2	908.2	102.5	135.1	60.5
60°	13152.4	354.0	97.8	130.4	60.5
62.5°	11857.7	195.6	93.1	107.1	55.9
65°	10483.8	153.7	88.5	83.8	55.9
67.5°	9123.8	125.7	83.8	79.2	55.9
70°	7735.9	111.8	79.2	69.9	51.2
72.5°	6320.1	102.5	74.5	69.9	46.6
75°	4918.2	93.1	74.5	60.5	46.6
77.5°	3679.3	88.5	69.9	60.5	37.3
80°	2445.1	79.2	65.2	51.2	32.6
82.5°	1350.6	74.5	55.9	46.6	32.6
85°	442.5	60.5	46.6	41.9	27.9
87.5°	69.9	41.9	37.3	37.3	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)