

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-LD5-28-N-UNV-L850-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-LD5-28-N-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

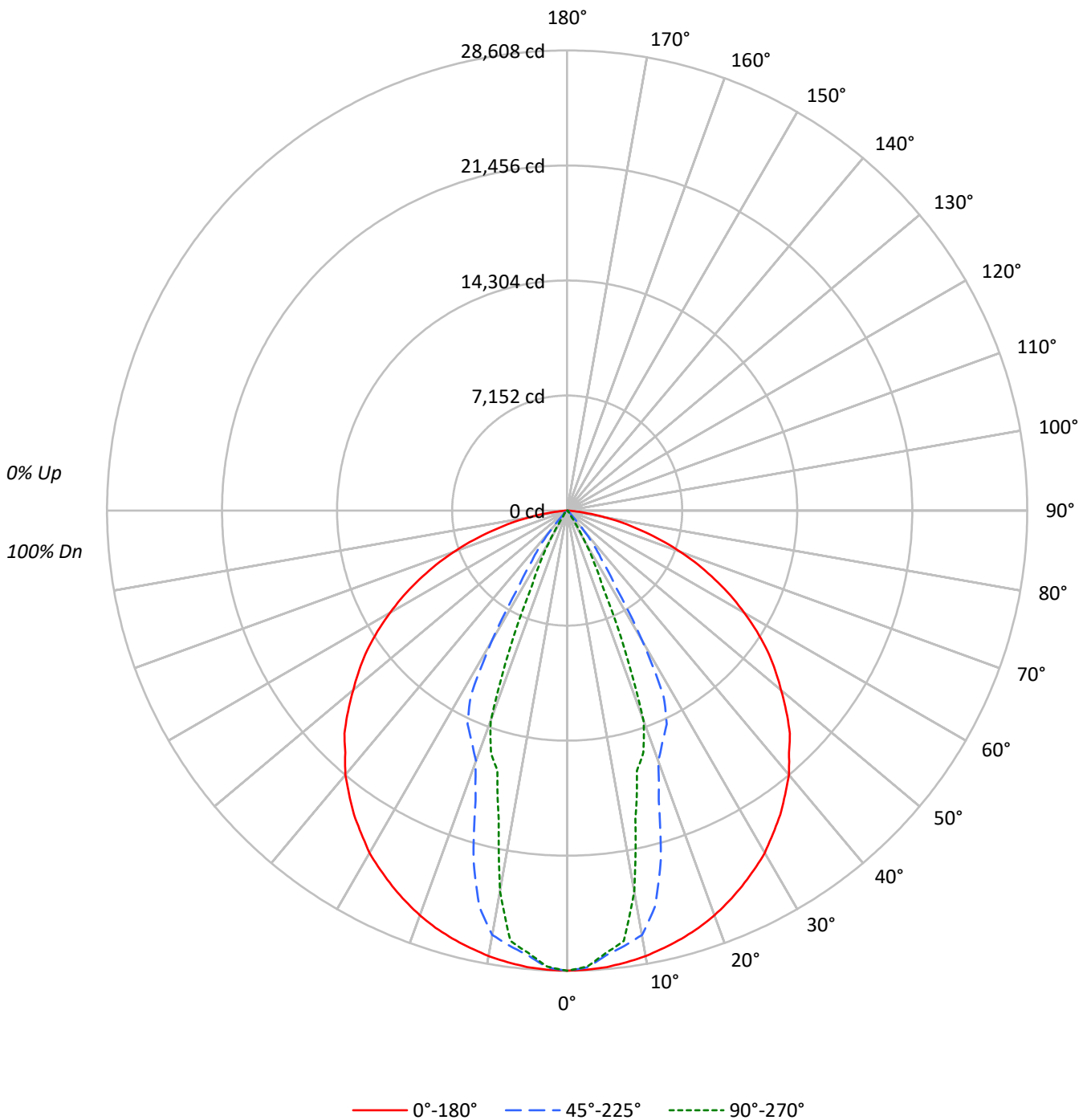
Lumens per Lamp: N/A
Luminaire Lumens: 28773.9 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 204
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°	41992	41992	41992
5°	41927	40586	40295
10°	41823	39332	35113
15°	41719	33400	24725
20°	41635	25091	20905
25°	41447	22817	8117
30°	41353	15112	3460
35°	41022	6437	764
40°	40666	2840	545
45°	40147	680	253
50°	39067	420	136
55°	38221	267	139
60°	36529	241	144
65°	34275	251	152
70°	31024	266	163
75°	25758	309	181
80°	18655	358	164
85°	6303	382	202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2627.9	9.1
10°-20°	6272.2	21.8
20°-30°	6858.0	23.8
30°-40°	4963.1	17.2
40°-50°	3703.9	12.9
50°-60°	2162.8	7.5
60°-70°	1344.5	4.7
70°-80°	701.2	2.4
80°-90°	140.1	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°	15758.2	54.8
0°-40°	20721.3	72.0
0°-60°	26588.1	92.4
0°-90°	28773.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28773.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28608	28608	28608	28608	28608	
5°	28487	28383	27753	27668	27609	###
15°	27546	26578	22486	17584	16746	7779
25°	25741	21851	14653	7639	5267	11874
35°	23094	14086	3808	824	459	14439
45°	19582	9206	356	243	135	15036
55°	15202	1783	117	135	63	13535
65°	10133	149	86	81	54	10019
75°	4754	90	72	58	45	5095
85°	428	58	45	40	27	810
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28608.4	28608.4	28608.4	28608.4	28608.4
2.5°	28563.3	28599.4	28428.3	28428.3	28378.8
5°	28486.8	28383.3	27753.0	27667.5	27609.0
7.5°	28320.2	27915.1	27298.4	27185.8	26992.2
10°	28122.2	27410.9	26789.7	25187.1	24012.1
12.5°	27843.1	26992.2	25232.1	21261.6	19631.9
15°	27546.0	26578.1	22486.0	17583.7	16746.4
17.5°	27194.8	26028.9	18916.2	16125.1	15765.0
20°	26776.2	25137.5	16566.3	15121.2	13914.8
22.5°	26285.5	23755.5	15503.9	12568.8	9314.0
25°	25740.8	21851.3	14653.1	7639.4	5267.0
27.5°	25169.1	19600.4	12969.4	4641.3	3596.9
30°	24574.8	17286.6	9359.1	3326.8	2169.8
32.5°	23814.0	15395.8	5676.7	1872.7	967.9
35°	23093.8	14085.8	3808.4	823.8	459.2
37.5°	22260.9	13181.0	2782.1	436.7	324.1
40°	21446.1	12298.7	1589.1	328.6	310.6
42.5°	20419.7	11200.3	670.8	310.6	220.6
45°	19582.4	9206.0	355.6	243.1	135.1
47.5°	18475.0	6302.4	238.6	189.1	85.5
50°	17363.1	3894.0	202.6	148.6	67.5
52.5°	16305.2	2579.5	148.6	139.6	63.0
55°	15202.3	1782.7	117.0	135.1	63.0
57.5°	13977.8	877.8	99.0	130.5	58.5
60°	12712.8	342.1	94.5	126.0	58.5
62.5°	11461.3	189.1	90.0	103.5	54.0
65°	10133.3	148.6	85.5	81.0	54.0
67.5°	8818.8	121.5	81.0	76.5	54.0
70°	7477.3	108.0	76.5	67.5	49.5
72.5°	6108.8	99.0	72.0	67.5	45.0
75°	4753.8	90.0	72.0	58.5	45.0
77.5°	3556.3	85.5	67.5	58.5	36.0
80°	2363.4	76.5	63.0	49.5	31.5
82.5°	1305.5	72.0	54.0	45.0	31.5
85°	427.7	58.5	45.0	40.5	27.0
87.5°	67.5	40.5	36.0	36.0	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)