

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-W-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 (P34175)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-28-W-TWB-UNV-L840-CD4-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

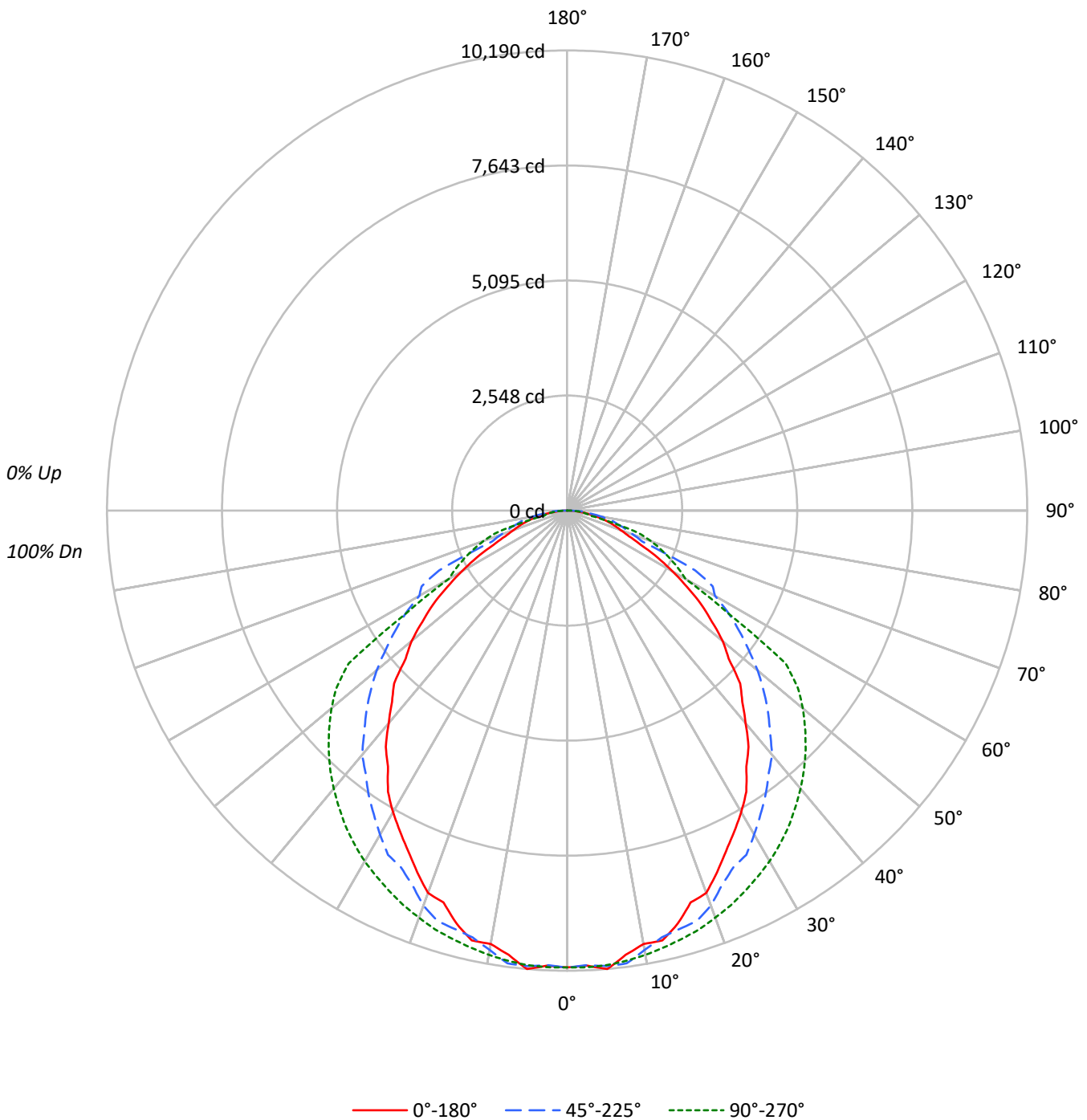
Lumens per Lamp: N/A
Luminaire Lumens: 25514.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 204
Input Voltage (V):
Input Current (A_{in}): 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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88					85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					72				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55					53				
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49					47				
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43					41				
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38					36				
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34					32				
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31					29				
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14850	14850	14850
5°	14998	14807	14743
10°	14491	14504	14609
15°	14337	14250	14494
20°	14013	14099	14413
25°	13401	13565	14340
30°	12974	13377	14295
35°	12287	12960	14226
40°	11663	12616	14116
45°	11109	12021	13976
50°	10121	11407	13767
55°	9111	10621	13072
60°	7746	9653	7474
65°	6109	9182	7068
70°	5225	5415	6498
75°	4988	4928	4098
80°	4560	4355	2414
85°	3632	3271	2049



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	958.4	3.8
10°-20°	2721.1	10.7
20°-30°	4061.7	15.9
30°-40°	4834.6	18.9
40°-50°	4888.2	19.2
50°-60°	4118.6	16.1
60°-70°	2379.9	9.3
70°-80°	1174.7	4.6
80°-90°	376.8	1.5
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°	7741.2	30.3
0°-40°	12575.8	49.3
0°-60°	21582.7	84.6
0°-90°	25514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10117	10117	10117	10117	10117	
5°	10190	10214	10125	10075	10102	952
15°	9466	9613	9594	9852	9817	2658
25°	8323	8477	8712	9135	9305	3843
35°	6917	7198	7668	8319	8546	4351
45°	5419	5584	6289	7044	7468	4112
55°	3624	3909	4660	5557	5904	3217
65°	1806	2203	3131	2353	2511	1859
75°	920	1132	1148	1263	1017	968
85°	246	304	385	458	273	283
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10117.3	10117.3	10117.3	10117.3	10117.3
2.5°	10086.4	10098.0	10074.9	10132.7	10121.1
5°	10190.4	10213.5	10125.0	10074.9	10101.8
7.5°	9924.7	9974.8	10113.4	10047.9	10055.6
10°	9743.7	9751.4	9878.5	10082.6	9990.2
12.5°	9751.4	9736.0	9678.2	10028.7	9909.3
15°	9466.4	9612.7	9593.5	9851.5	9816.9
17.5°	9100.5	9243.0	9531.9	9674.4	9724.4
20°	9011.9	8961.9	9308.5	9447.1	9593.5
22.5°	8669.2	8869.4	8965.7	9273.8	9462.5
25°	8322.6	8476.6	8711.5	9135.2	9304.6
27.5°	8010.6	8176.2	8592.2	9004.2	9139.0
30°	7710.2	7864.3	8284.1	8838.6	8965.7
32.5°	7382.9	7575.4	7972.1	8638.4	8765.5
35°	6916.9	7198.0	7667.9	8318.7	8545.9
37.5°	6597.2	6782.1	7332.8	7979.8	8295.6
40°	6150.5	6447.0	7059.4	7717.9	8041.4
42.5°	5738.4	6031.1	6647.3	7390.6	7768.0
45°	5418.7	5584.3	6289.1	7044.0	7467.6
47.5°	4848.7	5268.5	5900.1	6674.2	7147.9
50°	4498.3	4787.1	5507.3	6319.9	6812.9
52.5°	4043.8	4367.3	5064.4	5927.1	6439.3
55°	3624.0	3909.0	4660.0	5557.4	5904.0
57.5°	3146.5	3512.3	4240.2	5137.6	4213.3
60°	2695.9	3061.7	3778.1	3470.0	3027.1
62.5°	2264.5	2588.0	3635.6	2611.2	2776.8
65°	1806.2	2202.9	3131.1	2353.1	2511.0
67.5°	1482.7	1760.0	1806.2	2106.6	2245.3
70°	1259.4	1394.2	1559.8	1867.9	1968.0
72.5°	1093.8	1151.5	1355.6	1659.9	1675.3
75°	920.5	1132.3	1147.7	1263.2	1016.7
77.5°	735.6	912.7	993.6	735.6	519.9
80°	577.7	620.1	766.4	647.0	462.2
82.5°	400.5	458.3	531.5	558.4	381.3
85°	246.5	304.2	385.1	458.3	273.4
87.5°	104.0	165.6	265.7	354.3	150.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)