

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-TWBWG-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 (P34176)
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-TWBWG-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

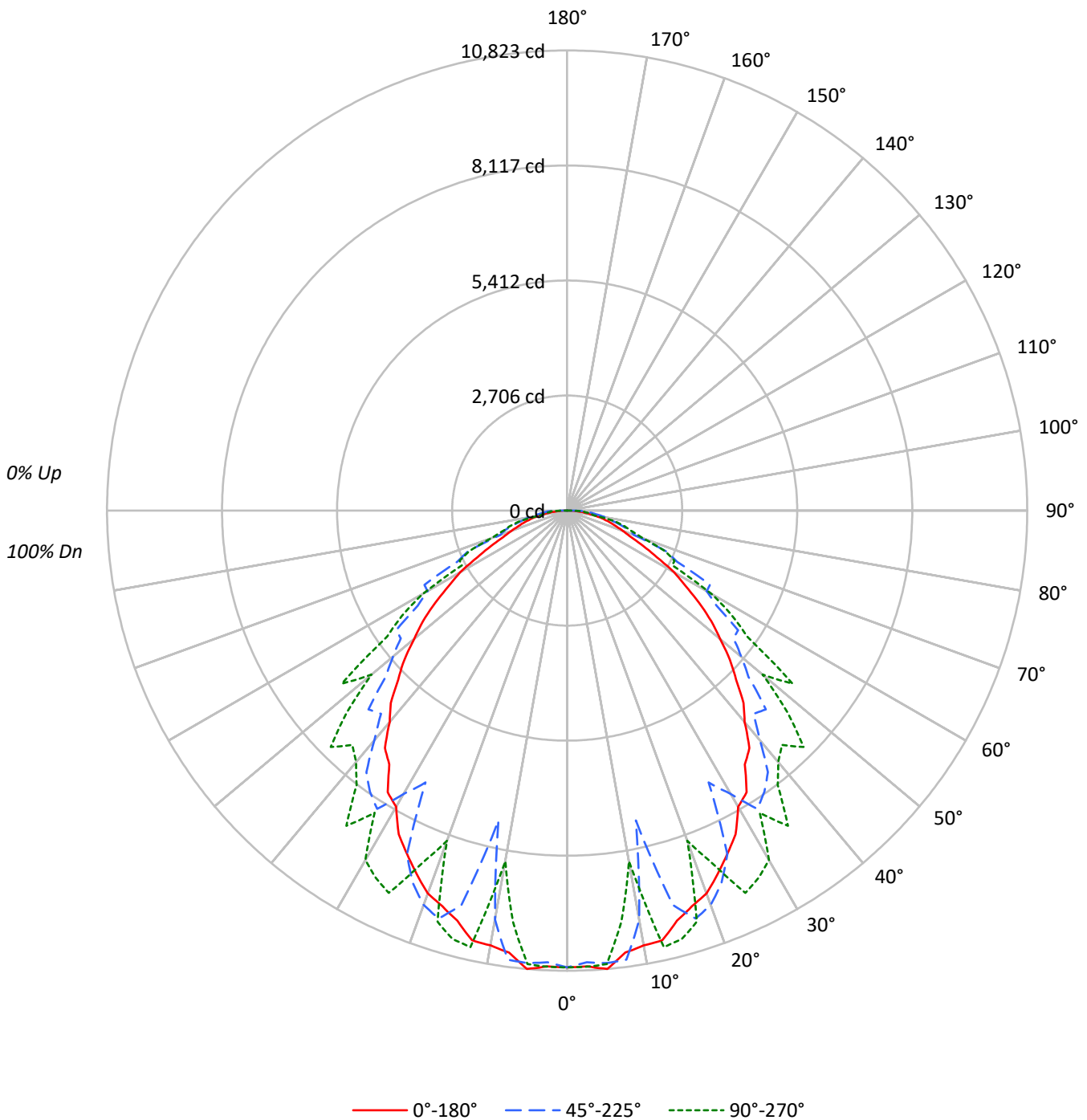
Lumens per Lamp: N/A
Luminaire Lumens: 26104.0 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15769	15769	15769
5°	15929	15620	15625
10°	15445	14355	12244
15°	15123	14269	15401
20°	14898	14947	12410
25°	14347	13881	15293
30°	13536	12424	15131
35°	12949	13659	15069
40°	12315	12604	13550
45°	11521	12637	14720
50°	10573	11070	12131
55°	9520	11185	11437
60°	8343	9675	9668
65°	6693	8356	7844
70°	5756	5813	6231
75°	5462	5580	5540
80°	5031	5255	3285
85°	4665	4741	3123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	979.8	3.8
10°-20°	2749.0	10.5
20°-30°	3974.2	15.2
30°-40°	4977.3	19.1
40°-50°	4845.1	18.6
50°-60°	4147.3	15.9
60°-70°	2572.8	9.9
70°-80°	1338.8	5.1
80°-90°	520.0	2.0
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°	7702.9	29.5
0°-40°	12680.1	48.6
0°-60°	21672.5	83.0
0°-90°	26104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10744	10744	10744	10744	10744	
5°	10823	10789	10681	10639	10706	###
15°	9985	10023	9606	10485	10431	2827
25°	8911	7386	8915	9165	9923	4095
35°	7290	7598	8082	8015	9052	4607
45°	5620	5045	6611	6761	7865	4347
55°	3787	4145	4907	5857	5166	3387
65°	1979	2220	2849	2412	2787	2008
75°	1008	1171	1300	1396	1375	1067
85°	317	421	558	642	417	339
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10743.5	10743.5	10743.5	10743.5	10743.5
2.5°	10731.0	10685.2	10635.2	10722.7	10739.4
5°	10822.7	10789.3	10681.0	10639.4	10706.0
7.5°	10485.2	10556.1	10656.0	10114.5	9764.6
10°	10385.3	10347.8	9777.1	7527.5	8373.2
12.5°	10351.9	10306.1	7465.1	10464.4	10514.4
15°	9985.4	10022.8	9606.3	10485.2	10431.1
17.5°	9760.4	9243.8	10060.3	10235.3	10139.5
20°	9581.3	8056.6	9868.7	9402.1	8260.7
22.5°	9252.2	6869.4	9485.5	7544.2	9010.6
25°	8910.6	7385.9	8914.7	9164.7	9922.9
27.5°	8581.5	8369.0	7210.9	9564.6	9743.7
30°	8044.1	8298.2	7694.2	9364.7	9489.6
32.5°	7856.6	7923.3	8319.0	8843.9	8427.4
35°	7290.1	7598.4	8081.6	8014.9	9052.2
37.5°	7040.2	7127.6	7756.7	8439.9	8131.6
40°	6494.4	6627.7	7052.6	7456.7	7719.2
42.5°	6140.3	5694.6	6481.9	7227.6	7477.6
45°	5619.6	5044.7	6611.1	6761.0	7865.0
47.5°	5194.7	5011.4	5786.3	7036.0	7036.0
50°	4699.0	4940.6	5344.7	6286.1	6002.9
52.5°	4274.1	4603.2	4932.3	5465.5	6686.1
55°	3786.7	4144.9	4907.3	5857.1	5165.6
57.5°	3307.6	3611.7	4165.8	4486.5	4607.3
60°	2903.5	3199.3	3786.7	4032.5	3915.8
62.5°	2382.8	2757.7	3786.7	3178.5	2786.9
65°	1978.7	2220.4	2849.4	2412.0	2786.9
67.5°	1624.7	1874.6	2532.8	2328.7	2482.8
70°	1387.2	1566.3	1674.6	2082.9	1887.1
72.5°	1187.2	1316.4	1533.0	1574.7	1566.3
75°	1008.1	1170.6	1299.7	1395.5	1374.7
77.5°	837.3	1066.4	1070.6	1283.1	1116.4
80°	637.4	729.0	924.8	837.3	629.0
82.5°	466.6	570.7	704.0	724.8	554.0
85°	316.6	420.7	558.2	641.5	416.6
87.5°	145.8	287.4	454.1	574.9	379.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)