

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-LD5-18-W-TWBWG-UNV-L840-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 (P34176)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-18-W-TWBWG-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

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

Summary

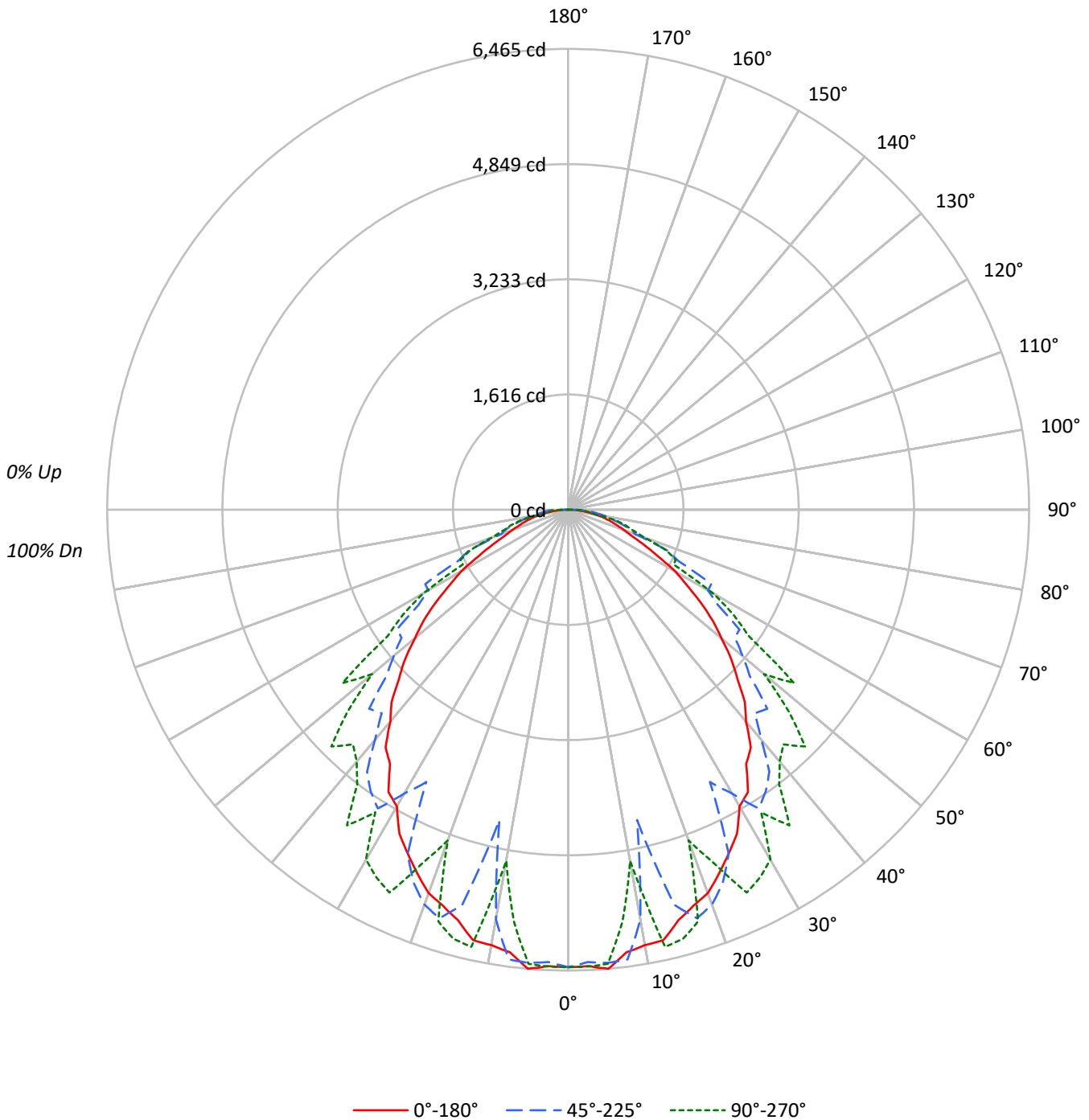
Lumens per Lamp: N/A
Luminaire Lumens: 15593.0 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 131.3
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°	9420	9420	9420
5°	9515	9330	9334
10°	9226	8575	7314
15°	9034	8523	9199
20°	8899	8929	7413
25°	8570	8292	9135
30°	8086	7421	9038
35°	7735	8159	9002
40°	7356	7529	8094
45°	6882	7549	8793
50°	6315	6613	7246
55°	5687	6681	6832
60°	4984	5779	5775
65°	3998	4991	4686
70°	3438	3473	3722
75°	3263	3333	3310
80°	3005	3139	1962
85°	2787	2832	1865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.2	3.8
10°-20°	1642.1	10.5
20°-30°	2373.9	15.2
30°-40°	2973.1	19.1
40°-50°	2894.2	18.6
50°-60°	2477.3	15.9
60°-70°	1536.8	9.9
70°-80°	799.7	5.1
80°-90°	310.6	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°	4601.2	29.5
0°-40°	7574.4	48.6
0°-60°	12945.9	83.0
0°-90°	15593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6418	6418	6418	6418	6418	
5°	6465	6445	6380	6355	6395	604
15°	5965	5987	5738	6263	6231	1688
25°	5323	4412	5325	5474	5927	2446
35°	4355	4539	4828	4788	5407	2752
45°	3357	3013	3949	4039	4698	2597
55°	2262	2476	2931	3499	3086	2023
65°	1182	1326	1702	1441	1665	1200
75°	602	699	776	834	821	637
85°	189	251	333	383	249	203
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6417.6	6417.6	6417.6	6417.6	6417.6
2.5°	6410.1	6382.7	6352.9	6405.1	6415.1
5°	6464.8	6444.9	6380.2	6355.3	6395.2
7.5°	6263.3	6305.6	6365.3	6041.8	5832.8
10°	6203.5	6181.2	5840.2	4496.5	5001.7
12.5°	6183.6	6156.3	4459.2	6250.8	6280.7
15°	5964.7	5987.1	5738.2	6263.3	6230.9
17.5°	5830.3	5521.7	6009.5	6114.0	6056.7
20°	5723.3	4812.5	5895.0	5616.3	4934.5
22.5°	5526.7	4103.4	5666.1	4506.5	5382.4
25°	5322.7	4411.9	5325.1	5474.5	5927.3
27.5°	5126.1	4999.2	4307.4	5713.3	5820.3
30°	4805.1	4956.9	4596.1	5593.9	5668.5
32.5°	4693.1	4732.9	4969.3	5282.8	5034.0
35°	4354.7	4538.8	4827.5	4787.7	5407.3
37.5°	4205.4	4257.6	4633.4	5041.5	4857.3
40°	3879.4	3959.0	4212.8	4454.2	4611.0
42.5°	3667.9	3401.6	3871.9	4317.4	4466.7
45°	3356.8	3013.4	3949.1	4038.7	4698.1
47.5°	3103.0	2993.5	3456.4	4202.9	4202.9
50°	2806.9	2951.2	3192.6	3755.0	3585.8
52.5°	2553.1	2749.7	2946.3	3264.8	3993.9
55°	2261.9	2475.9	2931.3	3498.7	3085.6
57.5°	1975.8	2157.4	2488.4	2680.0	2752.2
60°	1734.4	1911.1	2261.9	2408.8	2339.1
62.5°	1423.4	1647.3	2261.9	1898.6	1664.7
65°	1182.0	1326.3	1702.1	1440.8	1664.7
67.5°	970.5	1119.8	1512.9	1391.0	1483.1
70°	828.6	935.6	1000.3	1244.2	1127.2
72.5°	709.2	786.3	915.7	940.6	935.6
75°	602.2	699.2	776.4	833.6	821.2
77.5°	500.2	637.0	639.5	766.4	666.9
80°	380.7	435.5	552.4	500.2	375.7
82.5°	278.7	340.9	420.5	433.0	331.0
85°	189.1	251.3	333.4	383.2	248.8
87.5°	87.1	171.7	271.2	343.4	226.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)