

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: **HBLED-LD5-12HE-W-AI-UNV-L835-ED1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-W-AI-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

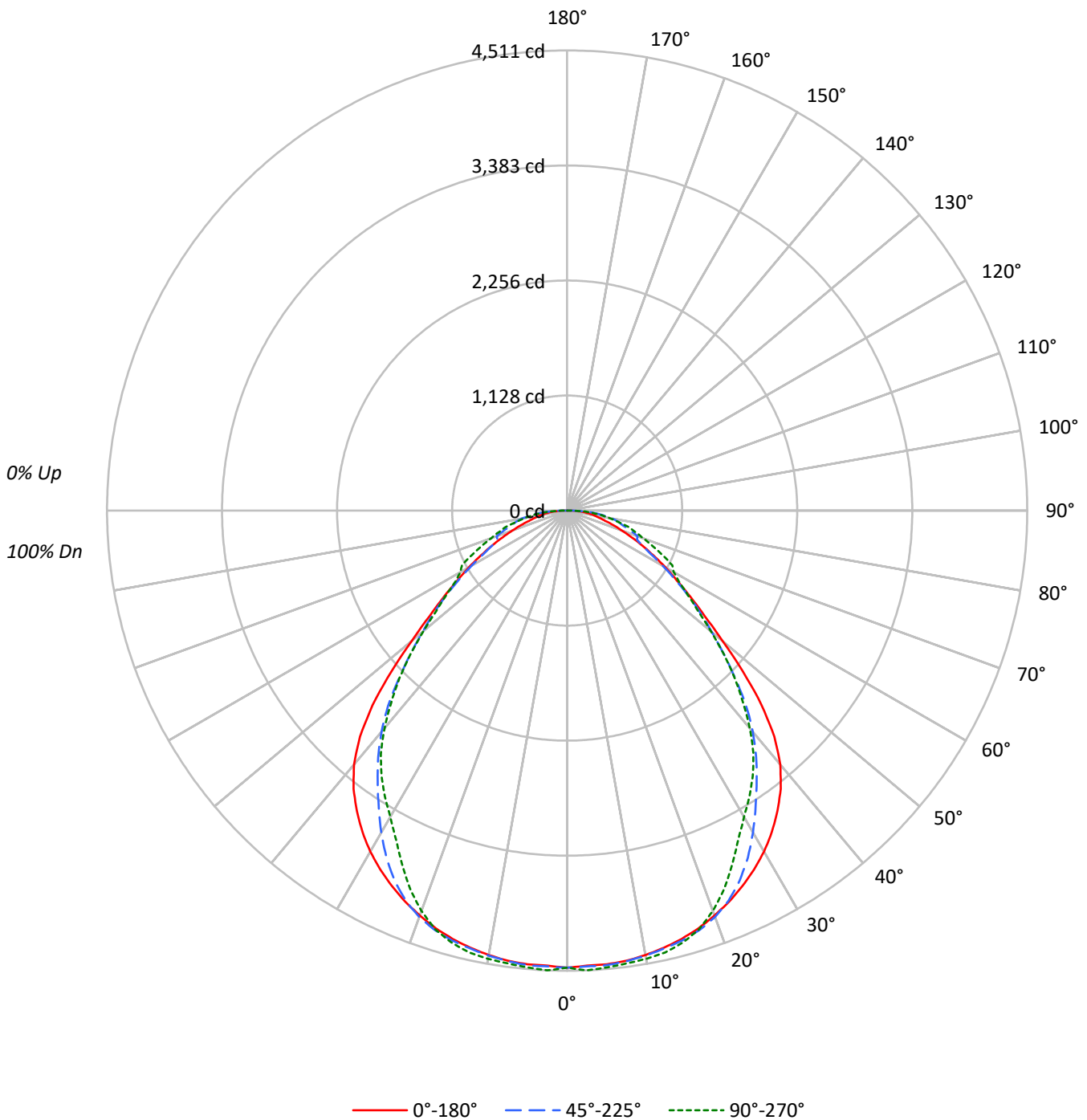
Lumens per Lamp: N/A
Luminaire Lumens: 10372.0 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
Input Voltage (V): NR
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	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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6029	6029	6029
5°	6029	6042	6071
10°	6044	6052	6096
15°	6053	6076	6105
20°	6047	6070	5980
25°	6032	5941	5683
30°	5996	5661	5385
35°	5906	5321	5210
40°	5708	4975	4893
45°	5131	4442	4426
50°	4162	3869	3843
55°	3455	3391	3390
60°	2992	2904	3247
65°	2593	2577	3273
70°	2236	2890	3120
75°	2005	2962	3252
80°	2084	3488	3264
85°	2365	4018	3728



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.7	4.1
10°-20°	1232.2	11.9
20°-30°	1830.1	17.6
30°-40°	2077.7	20.0
40°-50°	1857.3	17.9
50°-60°	1284.2	12.4
60°-70°	847.4	8.2
70°-80°	571.7	5.5
80°-90°	244.8	2.4
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°	3488.9	33.6
0°-40°	5566.6	53.7
0°-60°	8708.1	84.0
0°-90°	10372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4481	4481	4481	4481	4481	
5°	4464	4491	4473	4492	4495	425
15°	4346	4366	4362	4386	4383	1227
25°	4063	4102	4002	3883	3828	1872
35°	3596	3520	3239	3192	3172	2242
45°	2696	2468	2335	2352	2326	2051
55°	1473	1345	1446	1425	1445	1338
65°	814	723	809	946	1028	813
75°	386	485	570	609	626	421
85°	153	213	260	262	242	160
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4481.0	4481.0	4481.0	4481.0	4481.0
2.5°	4465.8	4493.7	4472.9	4492.2	4511.0
5°	4463.8	4491.2	4473.4	4491.7	4495.2
7.5°	4451.1	4476.5	4455.7	4473.4	4477.5
10°	4423.7	4453.6	4429.3	4456.7	4461.7
12.5°	4388.2	4418.6	4397.3	4434.8	4436.9
15°	4345.5	4366.3	4361.8	4386.1	4383.1
17.5°	4291.8	4315.6	4312.1	4318.1	4303.9
20°	4223.3	4250.1	4239.0	4211.1	4176.1
22.5°	4149.7	4182.2	4138.0	4067.5	4018.3
25°	4062.9	4101.5	4002.0	3882.8	3828.0
27.5°	3967.0	4001.5	3836.1	3690.0	3633.1
30°	3859.4	3874.2	3643.8	3504.7	3466.2
32.5°	3735.1	3713.8	3438.3	3346.4	3324.1
35°	3595.6	3520.0	3239.4	3192.2	3171.9
37.5°	3438.3	3299.8	3043.0	3021.2	2999.9
40°	3250.0	3045.5	2832.4	2818.2	2785.7
42.5°	3007.0	2769.0	2598.5	2581.8	2552.8
45°	2696.4	2468.1	2334.6	2352.4	2326.0
47.5°	2339.2	2166.2	2081.4	2130.1	2081.4
50°	1988.1	1871.9	1848.5	1892.7	1835.8
52.5°	1700.4	1595.8	1644.0	1651.7	1617.7
55°	1473.0	1344.7	1445.6	1425.3	1445.1
57.5°	1275.1	1131.5	1255.9	1232.5	1300.5
60°	1111.8	950.4	1079.3	1074.2	1206.6
62.5°	951.4	822.5	926.0	1000.6	1163.5
65°	814.4	723.1	809.3	946.3	1028.0
67.5°	683.0	648.5	740.3	816.4	905.7
70°	568.3	586.1	734.7	720.5	793.1
72.5°	471.9	532.3	648.5	651.0	702.3
75°	385.6	485.1	569.8	608.9	625.6
77.5°	320.7	439.9	514.5	528.2	512.0
80°	268.9	387.7	450.1	444.0	421.2
82.5°	217.2	293.8	354.7	360.3	333.4
85°	153.2	213.1	260.3	261.8	241.5
87.5°	82.2	131.4	157.8	162.4	150.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)