

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-LD5-12SE-W-CLI-UNV-L850-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 (P23766)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-CLI-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

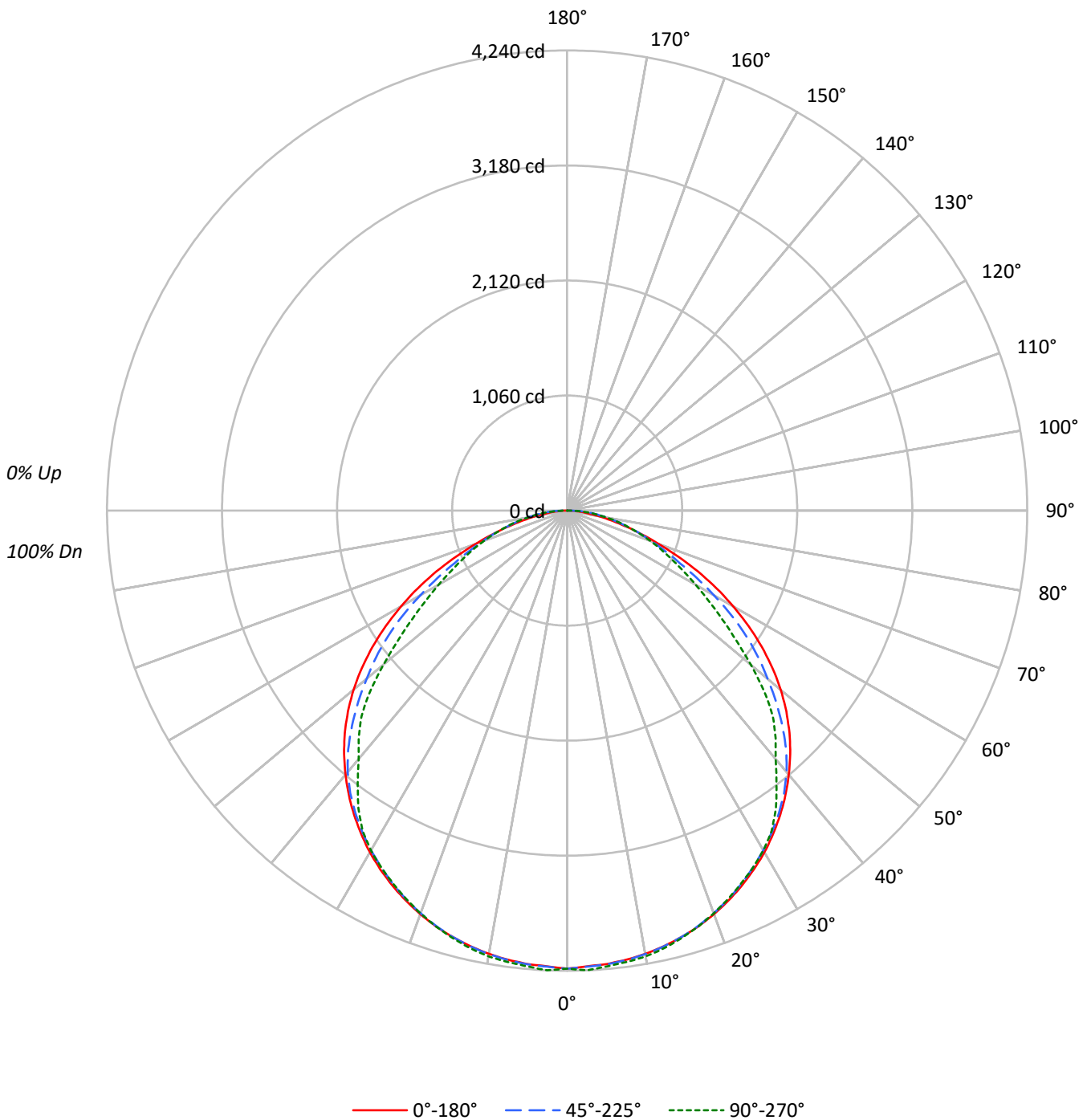
Lumens per Lamp: N/A
Luminaire Lumens: 11340.0 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5679	5679	5679
5°	5664	5668	5693
10°	5667	5670	5700
15°	5668	5667	5680
20°	5666	5653	5655
25°	5658	5637	5630
30°	5648	5615	5618
35°	5622	5587	5508
40°	5582	5525	5246
45°	5511	5335	5101
50°	5379	5051	4620
55°	5134	4723	4085
60°	4764	4215	3684
65°	4235	3649	3388
70°	3514	3261	3193
75°	2842	2985	3021
80°	2258	2854	2843
85°	1768	3066	2925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.3	3.5
10°-20°	1151.4	10.2
20°-30°	1755.6	15.5
30°-40°	2124.1	18.7
40°-50°	2151.5	19.0
50°-60°	1778.2	15.7
60°-70°	1174.5	10.4
70°-80°	612.5	5.4
80°-90°	192.0	1.7
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°	3307.3	29.2
0°-40°	5431.3	47.9
0°-60°	9361.1	82.5
0°-90°	11340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11340.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4221	4221	4221	4221	4221	
5°	4194	4219	4196	4215	4215	399
15°	4069	4090	4068	4081	4078	1149
25°	3811	3826	3797	3806	3792	1757
35°	3423	3427	3402	3397	3353	2141
45°	2896	2889	2804	2716	2681	2230
55°	2188	2156	2014	1818	1742	1951
65°	1330	1292	1146	1072	1064	1314
75°	547	556	574	582	581	596
85°	114	147	199	197	190	139
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4220.8	4220.8	4220.8	4220.8	4220.8
2.5°	4203.1	4227.9	4207.1	4225.4	4240.1
5°	4193.5	4218.8	4196.5	4214.7	4215.2
7.5°	4174.7	4200.0	4177.2	4195.5	4195.0
10°	4147.8	4171.7	4149.9	4171.7	4171.7
12.5°	4111.4	4134.7	4113.4	4133.7	4130.6
15°	4068.8	4089.6	4068.3	4081.0	4077.9
17.5°	4018.6	4037.4	4013.6	4024.2	4018.1
20°	3957.3	3974.6	3948.2	3961.9	3949.2
22.5°	3888.4	3904.6	3877.8	3887.9	3873.7
25°	3810.9	3826.1	3796.7	3806.3	3792.1
27.5°	3727.3	3741.0	3708.0	3719.7	3708.5
30°	3635.6	3642.2	3613.8	3629.0	3615.8
32.5°	3533.2	3537.3	3512.4	3526.1	3503.8
35°	3422.8	3427.3	3401.5	3396.9	3353.3
37.5°	3304.7	3306.7	3282.4	3241.4	3169.4
40°	3178.0	3177.0	3145.6	3050.8	2987.0
42.5°	3042.7	3042.2	2987.0	2879.1	2842.6
45°	2896.3	2888.7	2803.6	2716.4	2681.0
47.5°	2739.2	2731.1	2612.0	2542.6	2462.1
50°	2569.5	2555.3	2412.9	2318.2	2207.2
52.5°	2386.6	2364.8	2219.9	2066.8	1961.9
55°	2188.4	2156.0	2013.6	1818.0	1741.5
57.5°	1982.2	1934.1	1795.7	1605.2	1542.9
60°	1770.4	1716.7	1566.2	1409.6	1369.1
62.5°	1552.5	1499.3	1345.8	1227.7	1205.4
65°	1330.1	1291.6	1146.2	1071.7	1064.1
67.5°	1102.1	1088.4	977.4	939.4	936.4
70°	893.3	890.8	829.0	809.7	811.7
72.5°	713.9	710.9	701.8	692.2	692.7
75°	546.7	556.4	574.1	581.7	581.2
77.5°	407.9	427.7	465.2	480.4	477.8
80°	291.4	320.7	368.4	382.6	366.9
82.5°	194.1	225.0	281.2	283.2	270.6
85°	114.5	147.4	198.6	197.1	189.5
87.5°	56.8	88.7	119.1	114.0	108.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)