

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-LD5-15HE-W-AWG-UNV-L750-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 (P23764)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-W-AWG-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

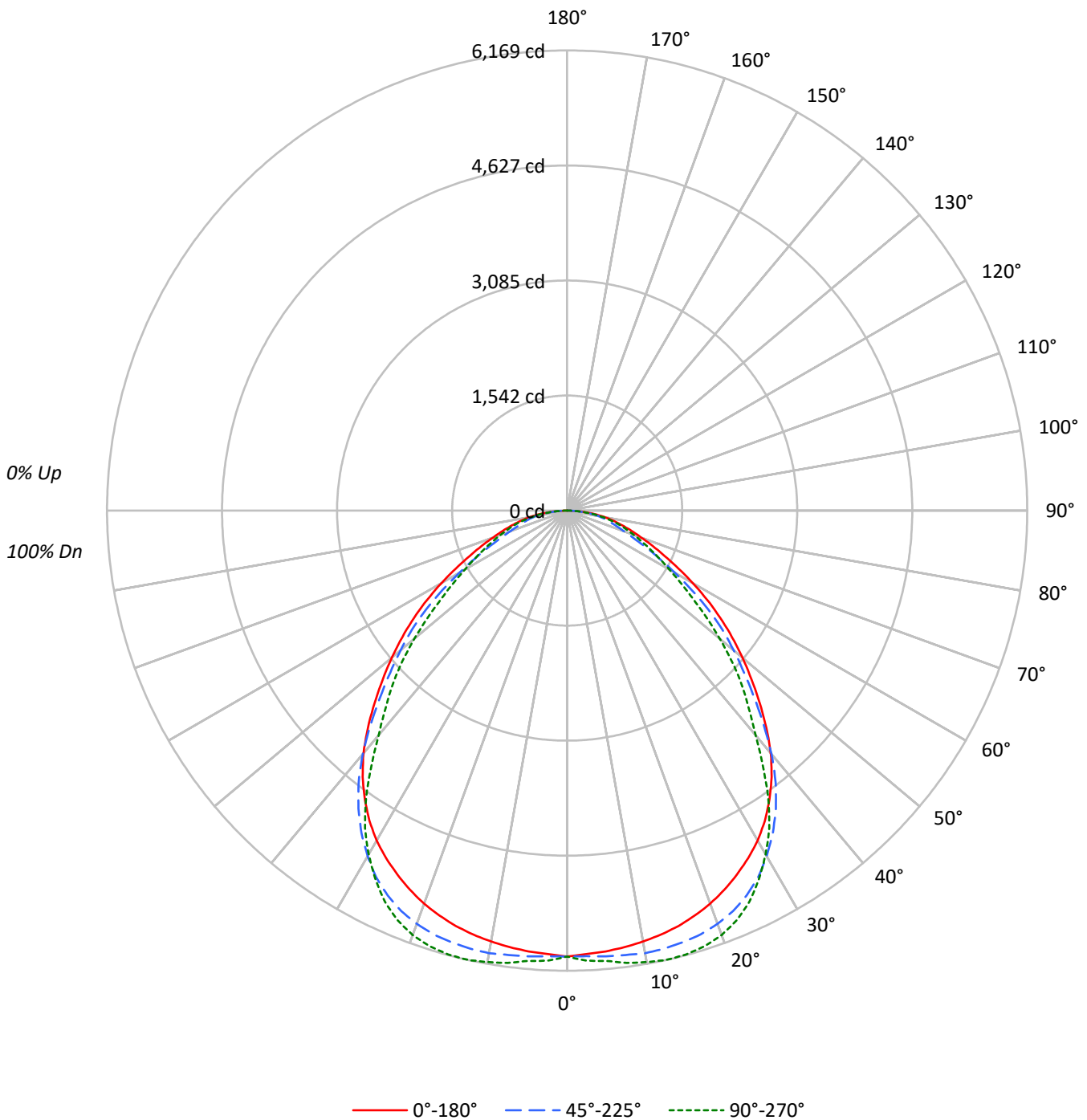
Lumens per Lamp: N/A
Luminaire Lumens: 14820.0 lumens
Efficiency: N/A
Efficacy: 161.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 91.8
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	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	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63					63			
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42					42			
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38					38			
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8044	8044	8044
5°	8013	8102	8185
10°	8015	8232	8398
15°	8030	8347	8581
20°	8028	8442	8669
25°	7994	8453	8590
30°	7934	8312	8268
35°	7766	8012	7720
40°	7462	7484	6902
45°	6946	6747	6309
50°	6421	6101	5591
55°	5877	5407	4824
60°	5241	4488	4260
65°	4596	3693	3914
70°	4150	3181	3727
75°	3967	3119	3717
80°	3998	3302	3626
85°	3541	3024	3165



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.3	3.9
10°-20°	1692.4	11.4
20°-30°	2595.9	17.5
30°-40°	2985.6	20.1
40°-50°	2723.1	18.4
50°-60°	2041.0	13.8
60°-70°	1255.5	8.5
70°-80°	719.5	4.9
80°-90°	232.9	1.6
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°	4862.5	32.8
0°-40°	7848.1	53.0
0°-60°	12612.2	85.1
0°-90°	14820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5978	5978	5978	5978	5978	
5°	5932	5993	5999	6048	6060	564
15°	5765	5893	5992	6120	6160	1627
25°	5384	5539	5694	5782	5786	2481
35°	4728	4820	4878	4798	4700	2949
45°	3650	3730	3546	3363	3316	2817
55°	2506	2412	2305	2102	2056	2238
65°	1444	1291	1160	1196	1230	1452
75°	763	684	600	687	715	816
85°	229	216	196	207	205	256
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5978.3	5978.3	5978.3	5978.3	5978.3
2.5°	5950.1	5992.7	5979.0	6014.1	6040.0
5°	5932.5	5992.7	5998.8	6048.4	6059.8
7.5°	5902.8	5981.3	6008.8	6096.4	6116.2
10°	5866.2	5960.7	6025.5	6120.0	6146.7
12.5°	5822.0	5931.8	6014.1	6130.7	6168.8
15°	5764.8	5892.9	5992.0	6120.0	6160.4
17.5°	5692.4	5841.1	5956.9	6082.7	6124.6
20°	5607.1	5764.1	5895.9	6024.8	6054.5
22.5°	5504.2	5661.9	5812.1	5928.0	5944.0
25°	5384.5	5539.2	5693.9	5781.6	5786.2
27.5°	5254.1	5398.2	5543.0	5590.3	5569.7
30°	5107.0	5235.8	5350.2	5360.1	5322.0
32.5°	4932.5	5048.3	5129.9	5108.5	5044.5
35°	4728.2	4820.4	4877.6	4797.6	4700.0
37.5°	4504.1	4573.5	4592.5	4418.7	4307.4
40°	4248.7	4308.2	4260.9	4019.3	3929.4
42.5°	3954.5	4023.1	3901.9	3663.3	3608.5
45°	3650.4	3729.7	3546.0	3363.0	3315.8
47.5°	3352.3	3424.8	3216.7	3069.5	2999.4
50°	3067.3	3098.5	2914.8	2748.6	2670.9
52.5°	2786.8	2755.5	2625.2	2418.6	2350.0
55°	2505.5	2412.5	2305.0	2101.5	2056.5
57.5°	2223.5	2093.9	1976.5	1820.2	1802.7
60°	1947.5	1788.2	1667.8	1574.8	1583.2
62.5°	1684.6	1522.2	1393.4	1363.7	1395.7
65°	1443.7	1291.2	1160.1	1196.0	1229.5
67.5°	1243.2	1096.9	963.5	1054.9	1081.6
70°	1054.9	936.8	808.7	926.9	947.5
72.5°	904.8	804.2	692.9	808.0	825.5
75°	763.0	683.7	599.9	686.8	715.0
77.5°	639.5	574.0	516.8	567.9	598.4
80°	516.0	460.4	426.1	449.0	468.0
82.5°	378.1	342.2	317.1	327.0	330.1
85°	229.4	216.5	195.9	206.6	205.0
87.5°	75.5	86.1	90.7	81.6	77.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)