

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-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 (P23760)
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-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

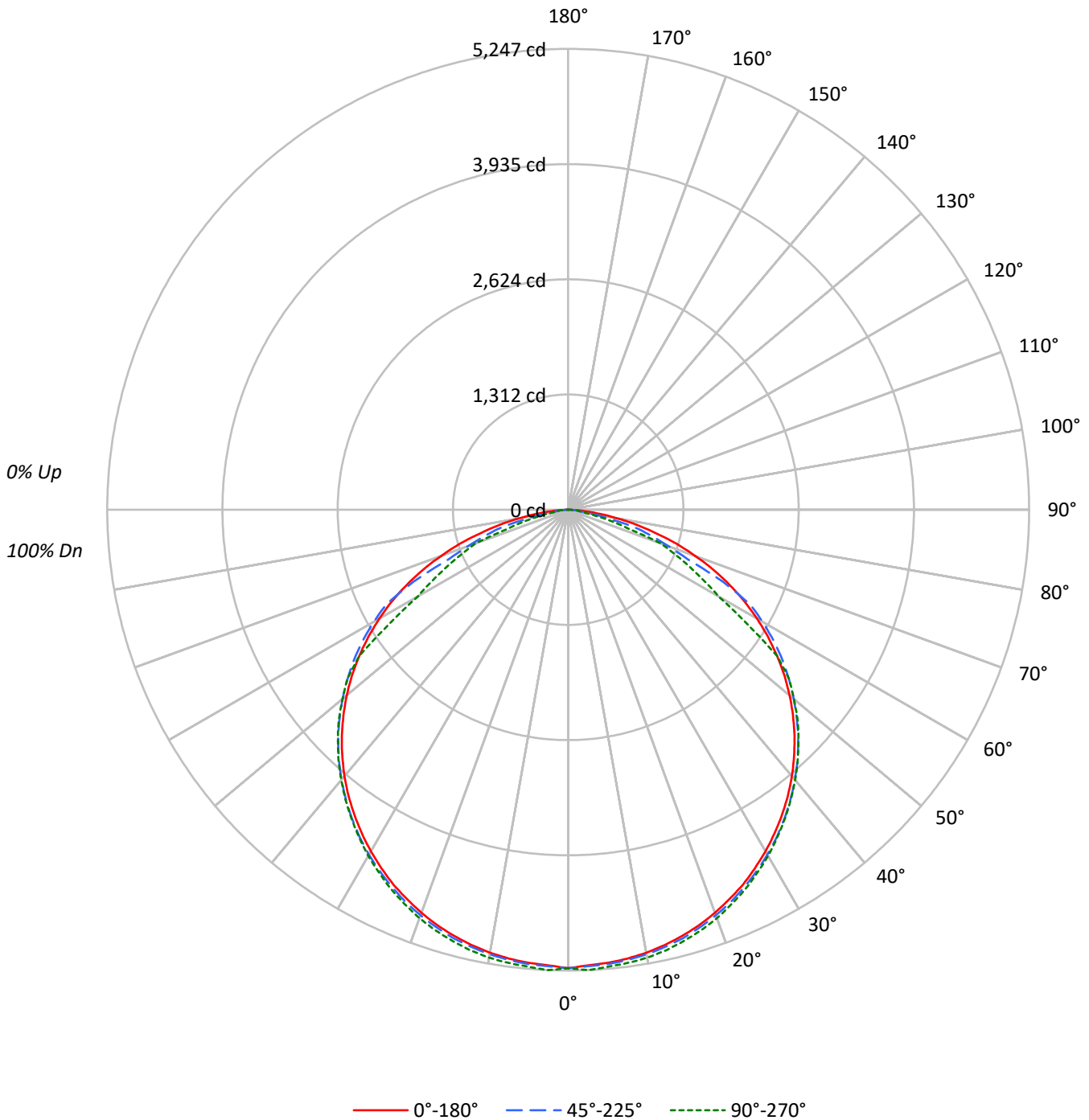
Lumens per Lamp: N/A
Luminaire Lumens: 15069.0 lumens
Efficiency: N/A
Efficacy: 164.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7023	7023	7023
5°	6994	7014	7053
10°	6998	7023	7076
15°	6996	7034	7083
20°	6993	7037	7087
25°	6990	7040	7079
30°	6978	7046	7072
35°	6969	7049	7058
40°	6957	7049	7060
45°	6930	7046	7054
50°	6889	7016	7015
55°	6808	6979	6806
60°	6682	6876	5325
65°	6459	6188	4798
70°	6051	4761	4421
75°	5358	4151	2755
80°	4413	2444	1232
85°	2908	1497	1613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.3	3.3
10°-20°	1429.1	9.5
20°-30°	2190.9	14.5
30°-40°	2687.0	17.8
40°-50°	2853.1	18.9
50°-60°	2606.0	17.3
60°-70°	1814.8	12.0
70°-80°	846.4	5.6
80°-90°	146.4	1.0
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°	4115.3	27.3
0°-40°	6802.3	45.1
0°-60°	12261.3	81.4
0°-90°	15069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5220	5220	5220	5220	5220	
5°	5178	5215	5193	5218	5222	493
15°	5023	5058	5050	5080	5085	1418
25°	4708	4750	4742	4777	4769	2170
35°	4243	4292	4292	4320	4297	2655
45°	3642	3697	3703	3727	3707	2809
55°	2902	2961	2975	2980	2901	2592
65°	2029	2091	1944	1546	1507	2002
75°	1031	1096	798	553	530	1102
85°	188	124	97	104	104	243
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5219.8	5219.8	5219.8	5219.8	5219.8
2.5°	5192.2	5225.4	5203.5	5227.3	5247.3
5°	5178.5	5214.8	5192.9	5217.9	5222.3
7.5°	5155.9	5190.4	5170.3	5197.9	5204.7
10°	5122.1	5155.9	5140.3	5172.8	5179.1
12.5°	5076.5	5110.9	5099.0	5134.7	5139.0
15°	5022.6	5057.7	5049.5	5080.2	5084.6
17.5°	4959.4	4995.7	4986.3	5018.9	5022.0
20°	4883.7	4923.1	4915.0	4953.2	4949.4
22.5°	4798.6	4840.5	4834.3	4872.4	4861.2
25°	4708.5	4749.8	4742.3	4777.3	4768.6
27.5°	4602.7	4648.4	4641.5	4675.3	4661.6
30°	4491.3	4537.6	4535.1	4565.8	4552.0
32.5°	4371.2	4420.6	4418.1	4448.2	4426.9
35°	4242.9	4291.7	4291.7	4320.5	4297.3
37.5°	4107.1	4156.5	4157.2	4184.7	4162.8
40°	3960.7	4010.1	4013.2	4039.5	4019.5
42.5°	3806.7	3860.5	3863.0	3886.8	3868.0
45°	3642.1	3697.2	3702.8	3726.6	3707.2
47.5°	3470.0	3525.7	3530.7	3556.4	3542.6
50°	3291.1	3344.9	3351.8	3373.0	3351.1
52.5°	3102.1	3157.1	3166.5	3179.7	3169.7
55°	2902.4	2960.6	2975.0	2980.0	2901.2
57.5°	2695.9	2755.4	2769.1	2654.0	2400.6
60°	2483.2	2542.0	2555.1	2159.0	1978.8
62.5°	2261.6	2319.2	2333.6	1789.2	1731.6
65°	2028.8	2091.4	1943.7	1545.7	1506.9
67.5°	1789.8	1854.2	1470.0	1324.8	1301.7
70°	1538.2	1603.3	1210.3	1129.6	1123.9
72.5°	1296.6	1344.8	993.1	856.1	720.9
75°	1030.7	1095.8	798.5	553.2	530.0
77.5°	799.1	690.9	481.9	405.5	319.8
80°	569.5	461.8	315.4	168.3	159.0
82.5°	361.1	301.6	123.9	127.0	132.7
85°	188.4	123.9	97.0	103.9	104.5
87.5°	60.7	53.2	58.2	57.6	56.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)