

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-LD5-60SE-W-AI-UNV-L835-ED4-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-LD5-60SE-W-AI-UNV-L835-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

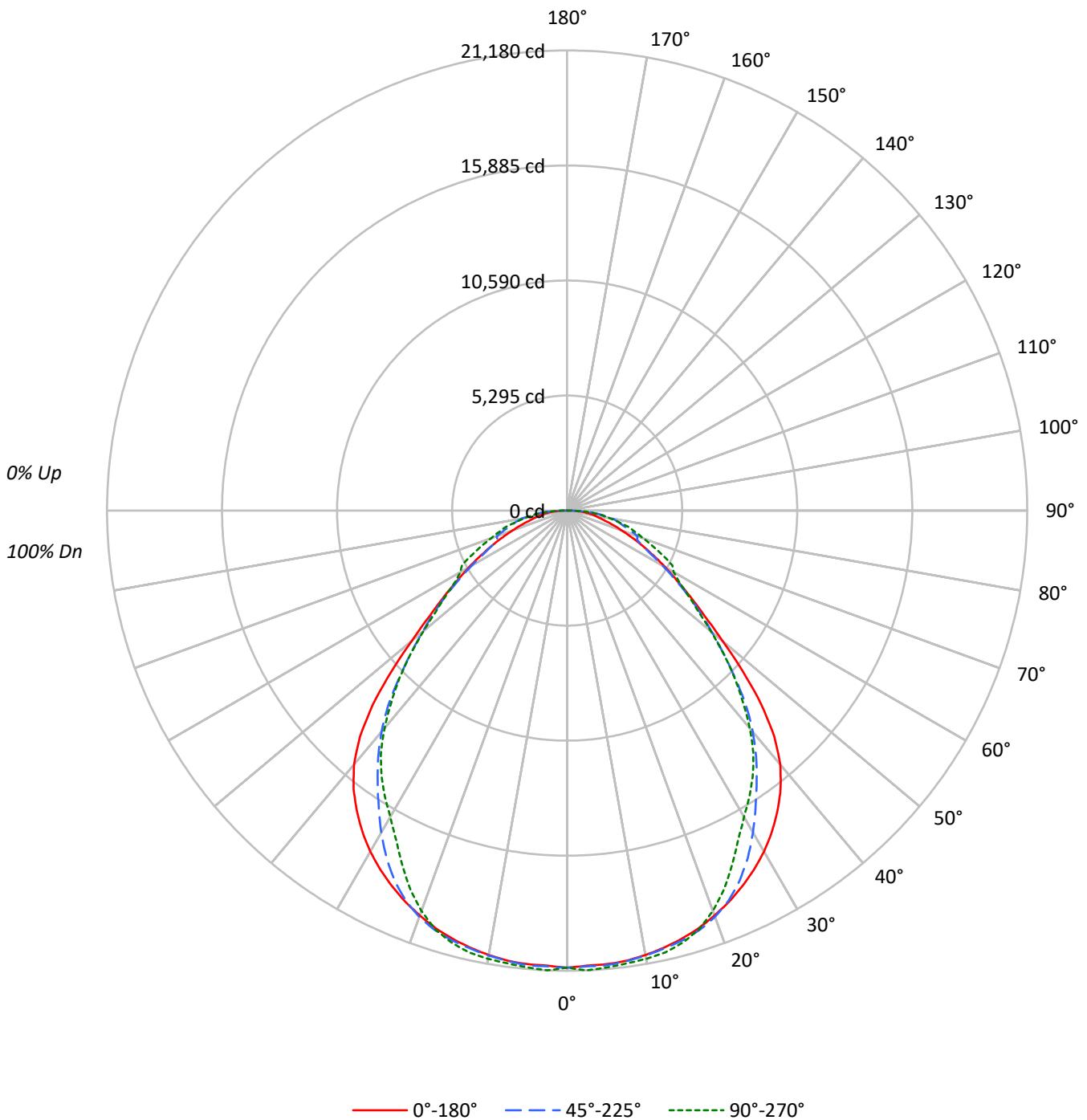
Lumens per Lamp: N/A
Luminaire Lumens: 48698.0 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 386
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28308	28308	28308
5°	28306	28368	28506
10°	28377	28412	28621
15°	28420	28527	28666
20°	28392	28497	28074
25°	28320	27895	26682
30°	28153	26580	25284
35°	27729	24982	24461
40°	26802	23358	22973
45°	24090	20858	20781
50°	19539	18167	18043
55°	16224	15922	15916
60°	14047	13636	15245
65°	12174	12098	15367
70°	10497	13571	14649
75°	9413	13908	15271
80°	9784	16374	15322
85°	11107	18868	17506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2003.2	4.1
10°-20°	5785.4	11.9
20°-30°	8592.5	17.6
30°-40°	9754.9	20.0
40°-50°	8720.5	17.9
50°-60°	6029.4	12.4
60°-70°	3978.5	8.2
70°-80°	2684.1	5.5
80°-90°	1149.6	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°	16381.1	33.6
0°-40°	26136.0	53.7
0°-60°	40885.8	84.0
0°-90°	48698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21039	21039	21039	21039	21039	
5°	20958	21087	21003	21089	21106	###
15°	20403	20501	20479	20594	20579	5759
25°	19076	19257	18790	18230	17973	8790
35°	16882	16527	15209	14988	14892	10527
45°	12660	11588	10962	11045	10921	9628
55°	6916	6313	6788	6692	6785	6282
65°	3824	3395	3800	4443	4827	3816
75°	1811	2278	2675	2859	2938	1977
85°	720	1001	1222	1229	1134	750
90°	0	0	0	0	0	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21039.0	21039.0	21039.0	21039.0	<i>21039.0</i>
2.5°	<i>20967.6</i>	<i>21098.6</i>	<i>21000.9</i>	<i>21091.5</i>	<i>21179.6</i>
5°	20958.0	21086.7	21003.3	21089.1	<i>21105.7</i>
7.5°	20898.5	21017.6	20919.9	21003.3	<i>21022.4</i>
10°	20769.8	20910.4	20796.0	20924.7	<i>20948.5</i>
12.5°	20603.1	20746.0	20645.9	20822.2	<i>20831.8</i>
15°	20402.9	20500.6	20479.2	20593.5	<i>20579.2</i>
17.5°	20150.4	20262.4	20245.7	20274.3	<i>20207.6</i>
20°	19828.8	19955.0	19902.6	19771.6	<i>19607.2</i>
22.5°	19483.3	19635.8	19428.5	19097.4	<i>18866.3</i>
25°	19075.9	19257.0	18790.0	18230.2	<i>17972.9</i>
27.5°	18625.7	18787.7	18011.0	17324.9	<i>17058.0</i>
30°	18120.6	18189.7	17108.1	16455.3	<i>16274.2</i>
32.5°	17536.9	17436.8	16143.2	15712.0	<i>15607.2</i>
35°	16881.7	16526.8	15209.3	14987.7	<i>14892.4</i>
37.5°	16143.2	15492.8	14287.3	14184.9	<i>14084.8</i>
40°	15259.3	14299.2	13298.6	13231.9	<i>13079.4</i>
42.5°	14118.1	13000.8	12200.3	12121.7	<i>11985.9</i>
45°	12660.1	11588.0	10961.5	11044.8	<i>10921.0</i>
47.5°	10982.9	10170.5	9772.6	10001.3	<i>9772.6</i>
50°	9334.3	8788.7	8679.1	8886.4	<i>8619.6</i>
52.5°	7983.4	7492.7	7719.0	7754.7	<i>7595.1</i>
55°	6916.1	6313.4	6787.5	6692.2	<i>6785.1</i>
57.5°	5987.0	5312.8	5896.5	5786.9	<i>6106.1</i>
60°	5219.9	4462.2	5067.4	5043.6	<i>5665.4</i>
62.5°	4467.0	3861.9	4347.9	4698.1	<i>5462.9</i>
65°	3823.8	3394.9	3799.9	4443.2	<i>4826.8</i>
67.5°	3206.7	3044.7	3475.9	3833.3	<i>4252.6</i>
70°	2668.3	2751.7	3449.7	3383.0	<i>3723.7</i>
72.5°	2215.6	2499.1	3044.7	3056.6	<i>3297.3</i>
75°	1810.6	2277.6	2675.4	2858.9	<i>2937.5</i>
77.5°	1505.7	2065.5	2415.8	2480.1	<i>2403.8</i>
80°	1262.7	1820.2	2113.2	2084.6	<i>1977.4</i>
82.5°	1019.7	1379.4	1665.3	1691.5	<i>1565.2</i>
85°	719.5	1000.6	1222.2	1229.3	<i>1134.0</i>
87.5°	386.0	617.0	740.9	762.4	<i>705.2</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)