

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-LD5-18HE-W-UNV-L835-ED2-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-LD5-18HE-W-UNV-L835-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

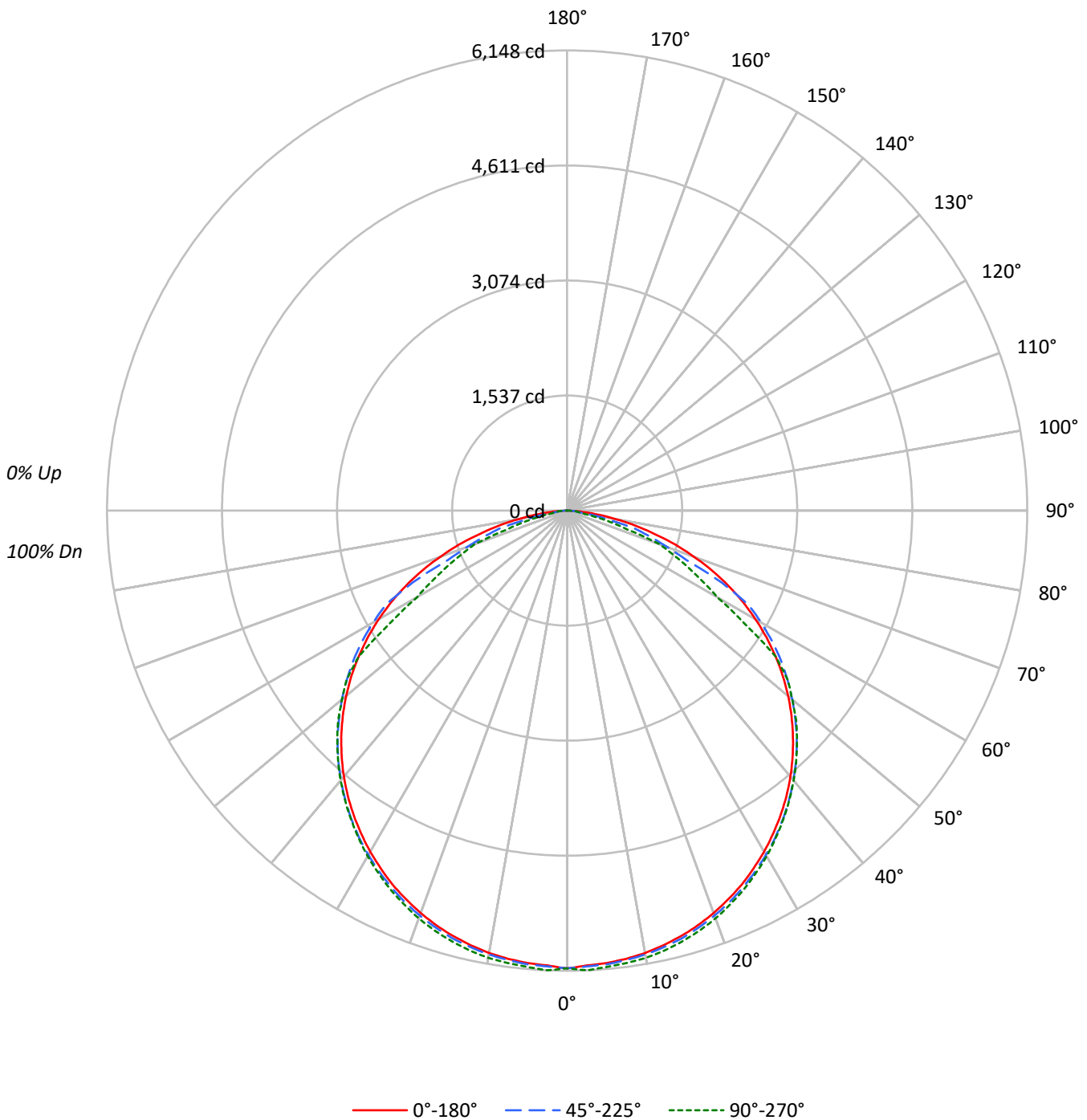
Lumens per Lamp: N/A  
Luminaire Lumens: 17655.0 lumens  
Efficiency: N/A  
Efficacy: 157.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 111.9  
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°	8228	8228	8228
5°	8194	8217	8264
10°	8199	8228	8290
15°	8197	8241	8298
20°	8193	8245	8303
25°	8190	8248	8294
30°	8175	8255	8286
35°	8165	8259	8270
40°	8150	8258	8271
45°	8120	8255	8265
50°	8071	8220	8218
55°	7977	8176	7974
60°	7829	8056	6238
65°	7568	7250	5621
70°	7090	5578	5180
75°	6278	4863	3228
80°	5170	2863	1443
85°	3407	1754	1890



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	580.3	3.3
10°-20°	1674.3	9.5
20°-30°	2566.9	14.5
30°-40°	3148.1	17.8
40°-50°	3342.7	18.9
50°-60°	3053.2	17.3
60°-70°	2126.2	12.0
70°-80°	991.7	5.6
80°-90°	171.5	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°	4821.6	27.3
0°-40°	7969.6	45.1
0°-60°	14365.5	81.4
0°-90°	17655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17655.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6116	6116	6116	6116	6116	
5°	6067	6110	6084	6113	6118	577
15°	5885	5926	5916	5952	5957	1662
25°	5516	5565	5556	5597	5587	2542
35°	4971	5028	5028	5062	5035	3111
45°	4267	4332	4338	4366	4343	3291
55°	3400	3469	3486	3491	3399	3037
65°	2377	2450	2277	1811	1766	2345
75°	1208	1284	936	648	621	1291
85°	221	145	114	122	122	285
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6115.5	6115.5	6115.5	6115.5	6115.5
2.5°	6083.3	6122.1	6096.5	6124.3	6147.8
5°	6067.1	6109.7	6084.0	6113.3	6118.5
7.5°	6040.7	6081.1	6057.6	6089.9	6097.9
10°	6001.2	6040.7	6022.4	6060.5	6067.9
12.5°	5947.6	5988.0	5974.0	6015.8	6020.9
15°	5884.6	5925.6	5916.1	5952.0	5957.2
17.5°	5810.5	5853.0	5842.1	5880.2	5883.8
20°	5721.8	5768.0	5758.5	5803.2	5798.8
22.5°	5622.1	5671.2	5663.9	5708.6	5695.4
25°	5516.5	5564.9	5556.1	5597.2	5586.9
27.5°	5392.6	5446.1	5438.1	5477.7	5461.5
30°	5262.1	5316.4	5313.4	5349.3	5333.2
32.5°	5121.3	5179.2	5176.3	5211.5	5186.6
35°	4971.0	5028.2	5028.2	5061.9	5034.8
37.5°	4811.9	4869.8	4870.6	4902.8	4877.2
40°	4640.4	4698.3	4701.9	4732.7	4709.3
42.5°	4460.0	4523.0	4526.0	4553.8	4531.8
45°	4267.2	4331.7	4338.3	4366.1	4343.4
47.5°	4065.5	4130.8	4136.7	4166.7	4150.6
50°	3855.8	3918.9	3927.0	3951.9	3926.2
52.5°	3634.4	3698.9	3709.9	3725.3	3713.6
55°	3400.5	3468.7	3485.6	3491.4	3399.1
57.5°	3158.6	3228.2	3244.4	3109.5	2812.5
60°	2909.3	2978.2	2993.6	2529.5	2318.3
62.5°	2649.7	2717.2	2734.1	2096.2	2028.7
65°	2377.0	2450.3	2277.3	1811.0	1765.5
67.5°	2096.9	2172.4	1722.3	1552.2	1525.0
70°	1802.2	1878.4	1418.0	1323.4	1316.8
72.5°	1519.2	1575.6	1163.6	1003.0	844.6
75°	1207.6	1283.8	935.5	648.1	621.0
77.5°	936.3	809.4	564.6	475.1	374.7
80°	667.2	541.1	369.5	197.2	186.2
82.5°	423.1	353.4	145.2	148.8	155.4
85°	220.7	145.2	113.6	121.7	122.4
87.5°	71.1	62.3	68.2	67.5	66.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)