

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-L840-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-L840-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

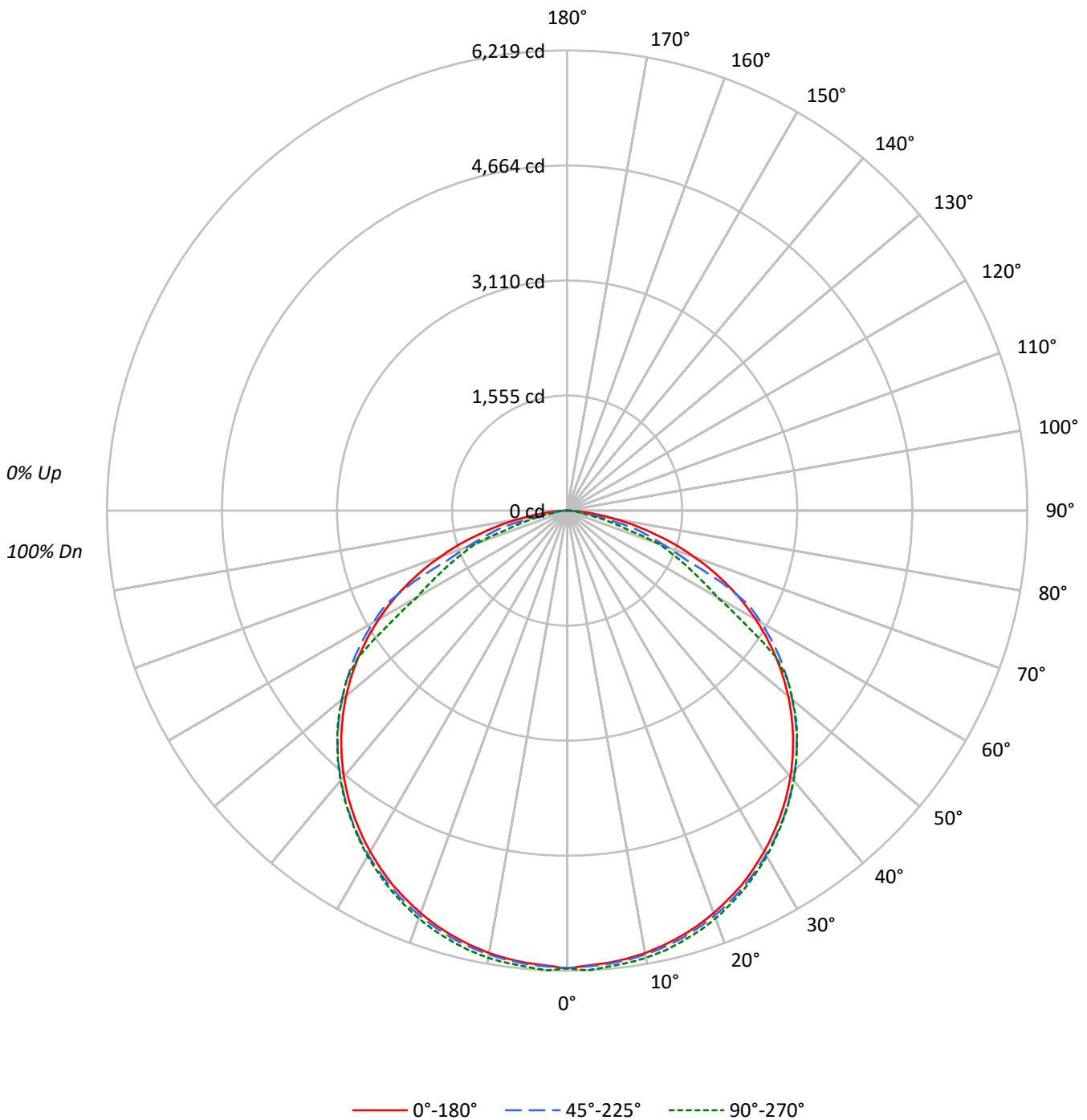
Lumens per Lamp: N/A  
Luminaire Lumens: 17860.0 lumens  
Efficiency: N/A  
Efficacy: 159.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	8324	8324	8324
5°	8290	8313	8360
10°	8294	8324	8386
15°	8292	8337	8394
20°	8288	8341	8399
25°	8285	8344	8391
30°	8270	8351	8382
35°	8260	8355	8366
40°	8245	8354	8368
45°	8214	8351	8361
50°	8165	8315	8314
55°	8070	8271	8066
60°	7920	8149	6311
65°	7656	7334	5686
70°	7172	5643	5240
75°	6351	4920	3266
80°	5229	2896	1460
85°	3447	1775	1913



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	587.1	3.3
10°-20°	1693.8	9.5
20°-30°	2596.7	14.5
30°-40°	3184.6	17.8
40°-50°	3381.6	18.9
50°-60°	3088.6	17.3
60°-70°	2150.9	12.0
70°-80°	1003.2	5.6
80°-90°	173.5	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°	4877.6	27.3
0°-40°	8062.2	45.1
0°-60°	14532.4	81.4
0°-90°	17860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17860.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6186	6186	6186	6186	6186	
5°	6138	6181	6155	6184	6190	584
15°	5953	5994	5985	6021	6026	1681
25°	5581	5630	5621	5662	5652	2572
35°	5029	5087	5087	5121	5093	3147
45°	4317	4382	4389	4417	4394	3329
55°	3440	3509	3526	3532	3438	3072
65°	2405	2479	2304	1832	1786	2373
75°	1222	1299	946	656	628	1306
85°	223	147	115	123	124	288
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6186.5	6186.5	6186.5	6186.5	6186.5
2.5°	6153.9	6193.2	6167.3	6195.4	6219.2
5°	6137.6	6180.6	6154.6	6184.3	6189.5
7.5°	6110.9	6151.7	6127.9	6160.6	6168.7
10°	6070.8	6110.9	6092.3	6130.9	6138.3
12.5°	6016.7	6057.5	6043.4	6085.7	6090.9
15°	5952.9	5994.4	5984.8	6021.1	6026.3
17.5°	5878.0	5921.0	5909.9	5948.5	5952.2
20°	5788.2	5835.0	5825.3	5870.6	5866.1
22.5°	5687.4	5737.1	5729.7	5774.9	5761.5
25°	5580.6	5629.5	5620.6	5662.2	5651.8
27.5°	5455.2	5509.4	5501.2	5541.3	5524.9
30°	5323.2	5378.1	5375.1	5411.5	5395.1
32.5°	5180.8	5239.4	5236.4	5272.0	5246.8
35°	5028.7	5086.6	5086.6	5120.7	5093.3
37.5°	4867.8	4926.4	4927.1	4959.8	4933.8
40°	4694.2	4752.8	4756.5	4787.7	4764.0
42.5°	4511.8	4575.6	4578.5	4606.7	4584.5
45°	4316.7	4382.0	4388.7	4416.8	4393.8
47.5°	4112.7	4178.8	4184.7	4215.1	4198.8
50°	3900.6	3964.4	3972.6	3997.8	3971.8
52.5°	3676.6	3741.9	3753.0	3768.6	3756.7
55°	3440.0	3509.0	3526.1	3532.0	3438.5
57.5°	3195.3	3265.7	3282.0	3145.6	2845.2
60°	2943.1	3012.8	3028.4	2558.9	2345.3
62.5°	2680.5	2748.7	2765.8	2120.5	2052.3
65°	2404.6	2478.8	2303.7	1832.0	1786.0
67.5°	2121.3	2197.7	1742.3	1570.2	1542.7
70°	1823.1	1900.2	1434.5	1338.8	1332.1
72.5°	1536.8	1593.9	1177.1	1014.6	854.4
75°	1221.6	1298.7	946.4	655.7	628.2
77.5°	947.2	818.8	571.1	480.6	379.0
80°	674.9	547.4	373.8	199.5	188.4
82.5°	428.0	357.5	146.9	150.6	157.2
85°	223.3	146.9	115.0	123.1	123.9
87.5°	71.9	63.0	69.0	68.2	67.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)