

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-A-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 (P23761)
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-A-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

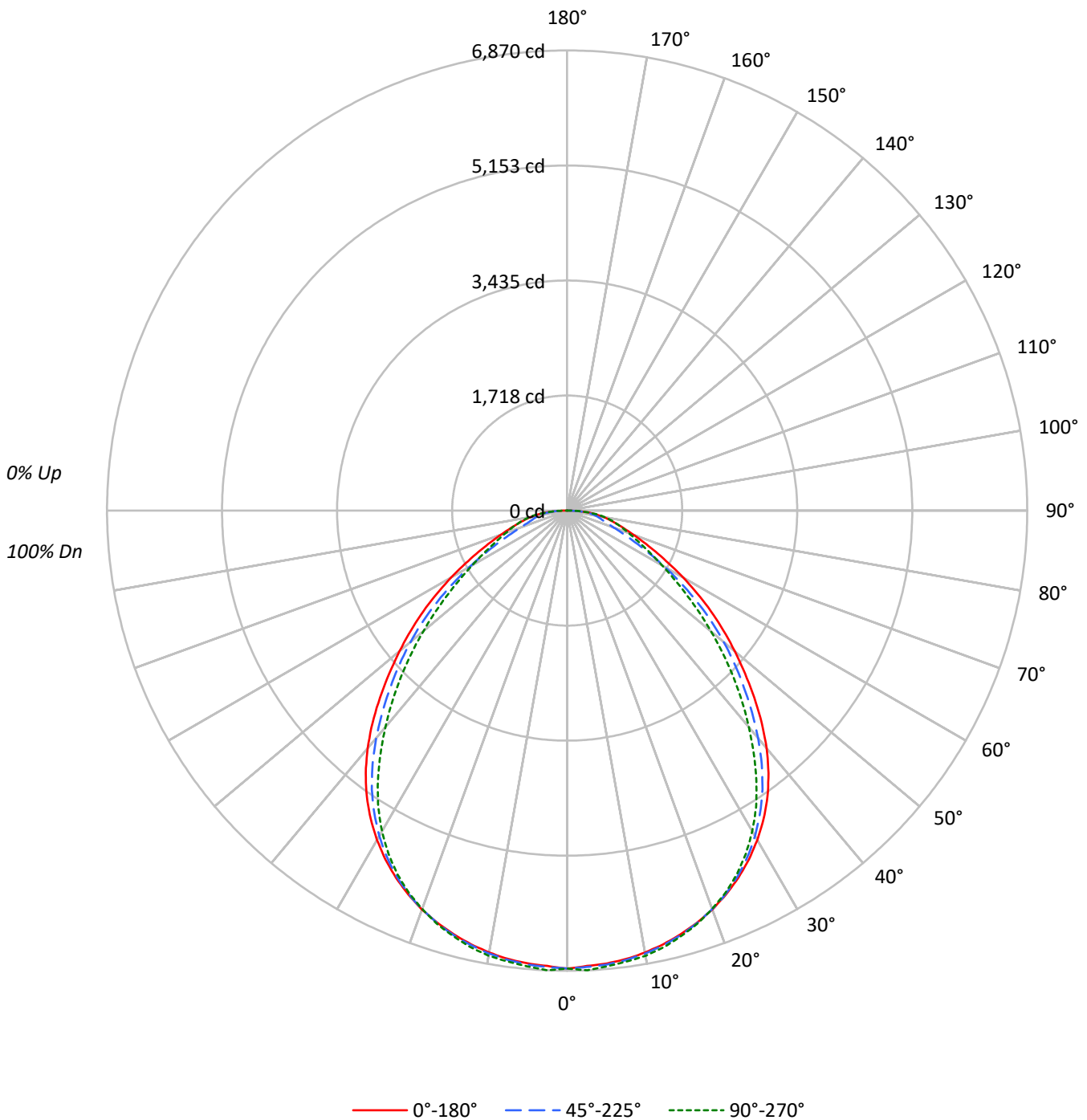
Lumens per Lamp: N/A
Luminaire Lumens: 15705.0 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65					63				
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57					55				
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45					43				
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40					38				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9199	9199	9199
5°	9166	9187	9224
10°	9153	9174	9221
15°	9123	9141	9162
20°	9075	9068	9061
25°	8976	8945	8895
30°	8821	8715	8588
35°	8565	8350	8092
40°	8139	7790	7416
45°	7519	7099	6670
50°	6835	6393	5867
55°	6146	5534	5071
60°	5378	4523	4401
65°	4637	3557	3972
70°	4134	2903	3828
75°	3960	2834	4000
80°	4283	3351	4457
85°	4809	4035	4857



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.9	4.1
10°-20°	1854.4	11.8
20°-30°	2774.0	17.7
30°-40°	3164.9	20.2
40°-50°	2880.9	18.3
50°-60°	2115.4	13.5
60°-70°	1249.1	8.0
70°-80°	715.8	4.6
80°-90°	302.6	1.9
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°	5276.3	33.6
0°-40°	8441.1	53.7
0°-60°	13437.4	85.6
0°-90°	15705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15705.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6837	6837	6837	6837	6837	
5°	6786	6829	6802	6829	6830	645
15°	6549	6585	6562	6585	6578	1848
25°	6046	6068	6026	6023	5992	2783
35°	5214	5189	5083	4996	4927	3249
45°	3952	3928	3731	3564	3505	3045
55°	2620	2499	2359	2188	2162	2343
65°	1456	1271	1117	1195	1248	1466
75°	762	653	545	711	770	821
85°	312	288	261	308	315	326
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6836.7	6836.7	6836.7	6836.7	6836.7
2.5°	6805.0	6844.4	6819.7	6846.7	6869.8
5°	6786.5	6828.9	6802.0	6828.9	6829.7
7.5°	6752.6	6791.9	6765.7	6795.0	6791.9
10°	6699.4	6738.7	6714.8	6746.4	6748.8
12.5°	6631.6	6669.3	6644.7	6680.9	6674.7
15°	6549.1	6585.3	6562.2	6585.3	6577.6
17.5°	6451.9	6485.1	6455.0	6480.4	6467.3
20°	6337.8	6365.6	6333.2	6357.1	6328.5
22.5°	6201.3	6226.0	6192.1	6205.2	6175.9
25°	6046.4	6067.9	6025.5	6023.2	5991.6
27.5°	5873.6	5885.2	5831.2	5812.7	5776.5
30°	5677.8	5680.9	5609.2	5574.5	5527.5
32.5°	5458.1	5450.4	5358.6	5306.9	5249.1
35°	5214.4	5189.0	5083.3	4996.2	4926.8
37.5°	4939.2	4899.1	4772.6	4643.9	4577.6
40°	4633.8	4586.8	4434.9	4275.3	4222.1
42.5°	4301.5	4261.4	4082.6	3916.0	3863.6
45°	3951.5	3928.4	3731.0	3563.7	3505.1
47.5°	3601.4	3584.5	3391.7	3221.3	3150.4
50°	3265.3	3228.3	3054.0	2867.4	2802.7
52.5°	2939.1	2863.6	2710.1	2518.9	2471.1
55°	2619.9	2498.9	2359.3	2188.2	2161.9
57.5°	2303.8	2147.3	2011.6	1883.6	1882.8
60°	1998.5	1819.6	1680.8	1613.7	1635.3
62.5°	1712.4	1528.9	1378.6	1383.2	1422.5
65°	1456.5	1271.4	1117.2	1195.1	1247.5
67.5°	1236.7	1060.2	903.6	1048.6	1098.7
70°	1050.9	891.3	737.9	919.1	973.0
72.5°	894.4	760.2	622.2	811.1	865.9
75°	761.8	653.1	545.1	710.9	769.5
77.5°	653.8	557.4	488.8	615.3	676.2
80°	552.8	468.0	432.5	522.8	575.2
82.5°	437.9	379.3	358.5	424.8	451.8
85°	311.5	287.6	261.4	308.4	314.6
87.5°	171.2	177.3	146.5	177.3	178.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)