

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-AI-UNV-L735-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 (P23765)
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-AI-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

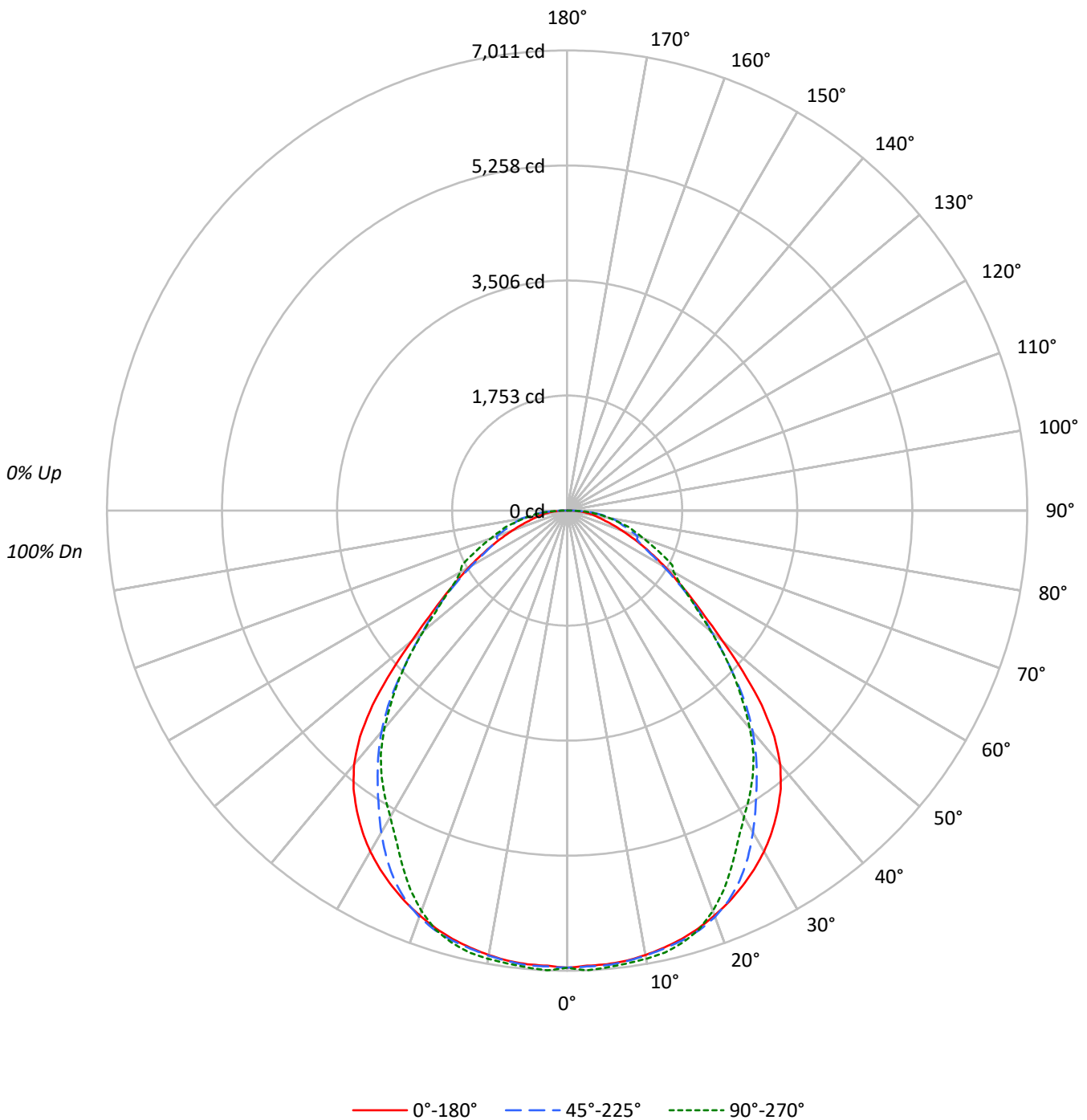
Lumens per Lamp: N/A
Luminaire Lumens: 16121.0 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	9371	9371	9371
5°	9371	9391	9437
10°	9394	9406	9475
15°	9408	9443	9490
20°	9399	9434	9294
25°	9375	9235	8833
30°	9320	8799	8370
35°	9179	8270	8098
40°	8873	7732	7605
45°	7975	6905	6879
50°	6468	6014	5973
55°	5371	5271	5269
60°	4650	4514	5047
65°	4030	4005	5087
70°	3475	4493	4849
75°	3116	4604	5055
80°	3239	5421	5072
85°	3677	6246	5795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.1	4.1
10°-20°	1915.2	11.9
20°-30°	2844.5	17.6
30°-40°	3229.3	20.0
40°-50°	2886.8	17.9
50°-60°	1996.0	12.4
60°-70°	1317.1	8.2
70°-80°	888.5	5.5
80°-90°	380.6	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
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0°-30°	5422.8	33.6
0°-40°	8652.1	53.7
0°-60°	13534.8	84.0
0°-90°	16121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16121.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6965	6965	6965	6965	6965	
5°	6938	6980	6953	6981	6987	660
15°	6754	6786	6779	6817	6813	1907
25°	6315	6375	6220	6035	5950	2910
35°	5588	5471	5035	4962	4930	3485
45°	4191	3836	3629	3656	3615	3187
55°	2290	2090	2247	2215	2246	2080
65°	1266	1124	1258	1471	1598	1263
75°	599	754	886	946	972	655
85°	238	331	405	407	375	248
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6964.8	6964.8	6964.8	6964.8	6964.8
2.5°	6941.1	6984.5	6952.2	6982.1	7011.3
5°	6938.0	6980.5	6952.9	6981.3	6986.9
7.5°	6918.2	6957.7	6925.3	6952.9	6959.2
10°	6875.7	6922.2	6884.3	6926.9	6934.8
12.5°	6820.4	6867.8	6834.6	6893.0	6896.2
15°	6754.2	6786.5	6779.4	6817.3	6812.6
17.5°	6670.6	6707.7	6702.1	6711.6	6689.5
20°	6564.1	6605.9	6588.6	6545.2	6490.8
22.5°	6449.8	6500.2	6431.6	6322.0	6245.5
25°	6314.9	6374.8	6220.3	6034.9	5949.7
27.5°	6165.8	6219.5	5962.4	5735.2	5646.9
30°	5998.6	6021.5	5663.5	5447.4	5387.4
32.5°	5805.4	5772.3	5344.0	5201.3	5166.6
35°	5588.5	5471.0	5034.9	4961.5	4930.0
37.5°	5344.0	5128.7	4729.7	4695.8	4662.6
40°	5051.5	4733.6	4402.4	4380.3	4329.8
42.5°	4673.7	4303.8	4038.8	4012.8	3967.8
45°	4191.0	3836.1	3628.7	3656.3	3615.3
47.5°	3635.8	3366.8	3235.1	3310.8	3235.1
50°	3090.0	2909.4	2873.1	2941.7	2853.4
52.5°	2642.8	2480.4	2555.3	2567.1	2514.3
55°	2289.5	2090.0	2246.9	2215.4	2246.1
57.5°	1981.9	1758.7	1952.0	1915.7	2021.4
60°	1728.0	1477.2	1677.5	1669.6	1875.5
62.5°	1478.8	1278.4	1439.3	1555.3	1808.4
65°	1265.8	1123.9	1257.9	1470.9	1597.9
67.5°	1061.6	1007.9	1150.7	1269.0	1407.8
70°	883.3	910.9	1142.0	1119.9	1232.7
72.5°	733.5	827.3	1007.9	1011.9	1091.5
75°	599.4	754.0	885.7	946.4	972.4
77.5°	498.4	683.8	799.7	821.0	795.8
80°	418.0	602.5	699.6	690.1	654.6
82.5°	337.6	456.6	551.3	560.0	518.2
85°	238.2	331.2	404.6	407.0	375.4
87.5°	127.8	204.3	245.3	252.4	233.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)