

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-AWG-UNV-L750-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 (P23764)
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-AWG-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

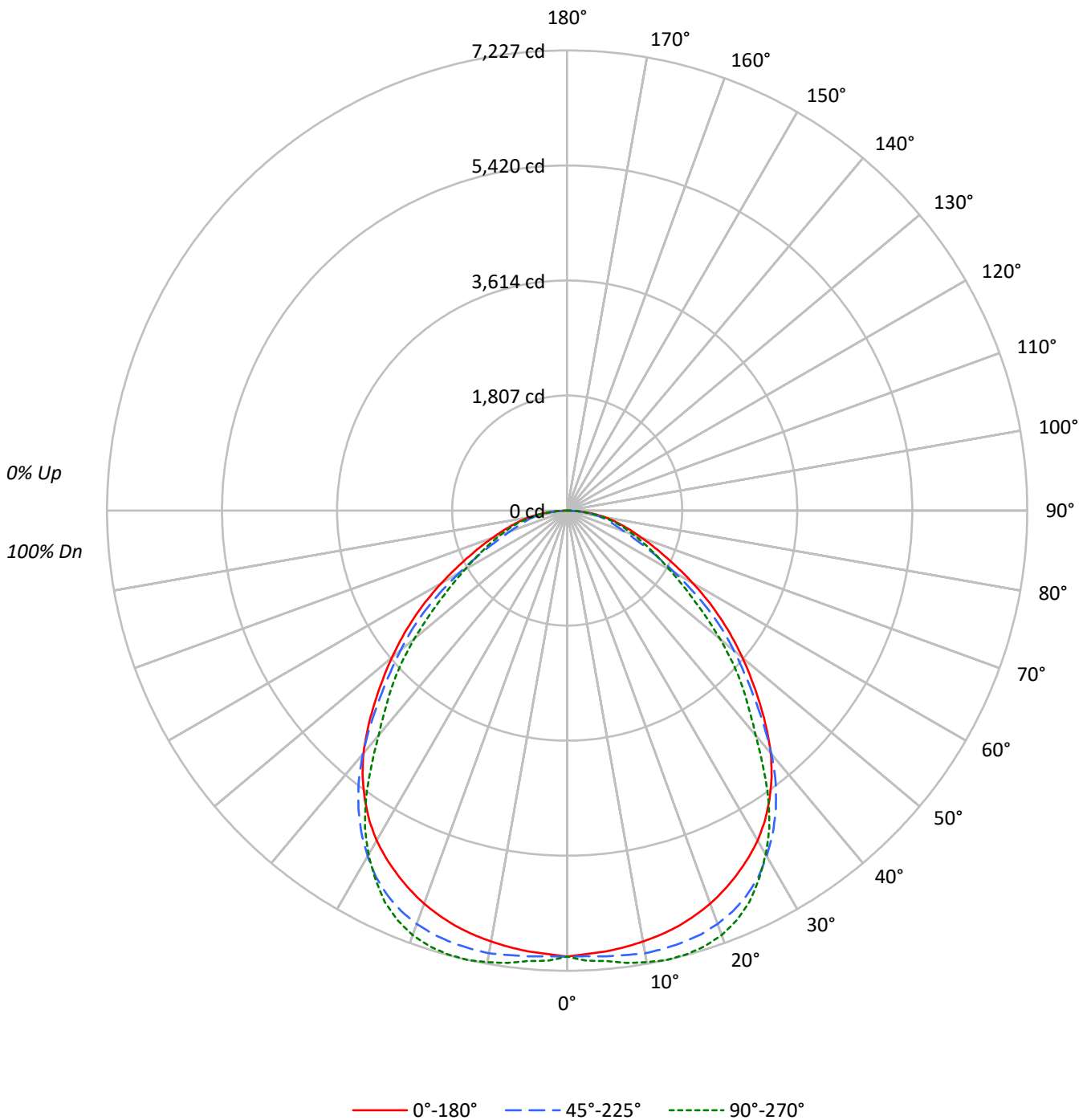
Lumens per Lamp: N/A
Luminaire Lumens: 17363.0 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-18HE-W-AWG-UNV-L750-ED2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-W-AWG-UNV-L750-ED2-U

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	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	85	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9424	9424	9424
5°	9388	9492	9589
10°	9390	9645	9839
15°	9408	9779	10054
20°	9406	9891	10157
25°	9365	9904	10064
30°	9296	9739	9687
35°	9099	9386	9045
40°	8743	8768	8086
45°	8138	7905	7392
50°	7522	7148	6550
55°	6886	6335	5652
60°	6140	5258	4991
65°	5385	4327	4586
70°	4862	3727	4367
75°	4647	3654	4355
80°	4685	3868	4248
85°	4150	3543	3708



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-W-AWG-UNV-L750-ED2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.8	3.9
10°-20°	1982.8	11.4
20°-30°	3041.3	17.5
30°-40°	3497.9	20.1
40°-50°	3190.4	18.4
50°-60°	2391.2	13.8
60°-70°	1470.9	8.5
70°-80°	842.9	4.9
80°-90°	272.9	1.6
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°	5696.9	32.8
0°-40°	9194.8	53.0
0°-60°	14776.3	85.1
0°-90°	17363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17363.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7004	7004	7004	7004	7004	
5°	6950	7021	7028	7086	7100	661
15°	6754	6904	7020	7170	7218	1907
25°	6308	6490	6671	6774	6779	2907
35°	5540	5648	5714	5621	5506	3455
45°	4277	4370	4154	3940	3885	3301
55°	2935	2826	2700	2462	2409	2623
65°	1691	1513	1359	1401	1440	1701
75°	894	801	703	805	838	956
85°	269	254	230	242	240	300
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-W-AWG-UNV-L750-ED2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7004.1	7004.1	7004.1	7004.1	7004.1
2.5°	6971.0	7021.1	7005.0	7046.1	7076.4
5°	6950.5	7021.1	7028.2	7086.3	7099.6
7.5°	6915.7	7007.7	7039.8	7142.5	7165.7
10°	6872.8	6983.6	7059.5	7170.2	7201.5
12.5°	6821.0	6949.6	7046.1	7182.7	7227.4
15°	6754.0	6904.1	7020.2	7170.2	7217.5
17.5°	6669.2	6843.3	6979.1	7126.4	7175.6
20°	6569.2	6753.1	6907.6	7058.6	7093.4
22.5°	6448.6	6633.5	6809.4	6945.2	6963.9
25°	6308.4	6489.7	6671.0	6773.7	6779.0
27.5°	6155.7	6324.5	6494.2	6549.5	6525.4
30°	5983.3	6134.3	6268.2	6279.8	6235.2
32.5°	5778.8	5914.6	6010.1	5985.1	5910.1
35°	5539.5	5647.6	5714.5	5620.8	5506.5
37.5°	5277.0	5358.2	5380.5	5176.9	5046.6
40°	4977.8	5047.4	4992.1	4709.0	4603.6
42.5°	4633.1	4713.5	4571.5	4291.9	4227.6
45°	4276.8	4369.6	4154.4	3940.1	3884.7
47.5°	3927.6	4012.4	3768.6	3596.3	3514.1
50°	3593.6	3630.2	3415.0	3220.3	3129.2
52.5°	3264.9	3228.3	3075.6	2833.6	2753.2
55°	2935.4	2826.5	2700.5	2462.1	2409.4
57.5°	2605.0	2453.2	2315.6	2132.6	2112.0
60°	2281.7	2095.1	1954.0	1845.0	1854.8
62.5°	1973.6	1783.4	1632.5	1597.6	1635.2
65°	1691.4	1512.8	1359.2	1401.2	1440.5
67.5°	1456.5	1285.1	1128.8	1236.0	1267.2
70°	1236.0	1097.5	947.5	1085.9	1110.0
72.5°	1060.0	942.2	811.8	946.6	967.2
75°	893.9	801.1	702.8	804.6	837.7
77.5°	749.3	672.5	605.5	665.3	701.0
80°	604.6	539.4	499.2	526.0	548.3
82.5°	442.9	401.0	371.5	383.1	386.7
85°	268.8	253.6	229.5	242.0	240.2
87.5°	88.4	100.9	106.3	95.6	90.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)