

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-LD5-18SE-W-CL-UNV-L750-ED1-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 (P23762)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-CL-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

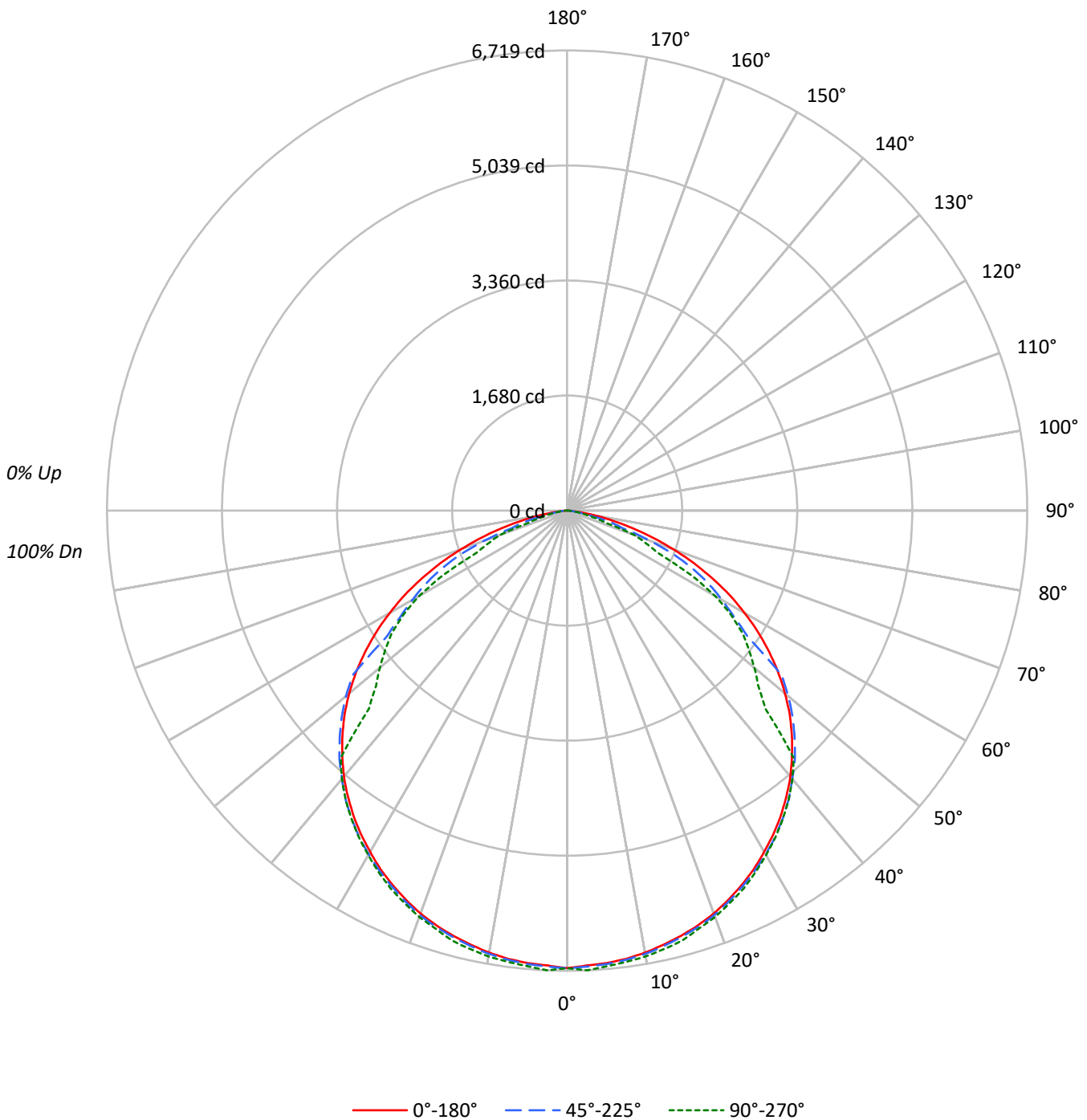
Lumens per Lamp: N/A
Luminaire Lumens: 18059.0 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 121.76
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-LD5-18SE-W-CL-UNV-L750-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18SE-W-CL-UNV-L750-ED1-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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8988	8988	8988
5°	8955	8975	9019
10°	8954	8980	9032
15°	8954	8981	9053
20°	8965	8999	9041
25°	8955	8988	9043
30°	8938	9003	9024
35°	8933	9015	9022
40°	8906	8984	8984
45°	8829	8936	7786
50°	8693	8824	7470
55°	8446	7553	7338
60°	8050	7021	6704
65°	7445	6518	4643
70°	6482	5071	4137
75°	5121	3404	2224
80°	3296	1626	1386
85°	1355	993	1093



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18SE-W-CL-UNV-L750-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.7	3.5
10°-20°	1826.4	10.1
20°-30°	2800.2	15.5
30°-40°	3432.0	19.0
40°-50°	3528.4	19.5
50°-60°	3011.3	16.7
60°-70°	1990.8	11.0
70°-80°	737.6	4.1
80°-90°	98.6	0.5
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°	5260.2	29.1
0°-40°	8692.3	48.1
0°-60°	15231.9	84.3
0°-90°	18059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6680	6680	6680	6680	6680	
5°	6630	6677	6645	6671	6678	631
15°	6428	6467	6447	6496	6499	1816
25°	6032	6063	6054	6109	6091	2781
35°	5439	5476	5488	5523	5492	3402
45°	4640	4686	4696	4689	4092	3576
55°	3601	3666	3220	3126	3128	3213
65°	2338	2358	2047	1684	1458	2306
75°	985	863	655	440	428	1057
85°	88	63	64	70	71	145
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18SE-W-CL-UNV-L750-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6680.0	6680.0	6680.0	6680.0	6680.0
2.5°	6647.4	6688.9	6664.5	6695.4	6719.0
5°	6630.3	6676.7	6645.0	6671.0	6677.5
7.5°	6601.1	6644.2	6614.9	6649.0	6644.2
10°	6553.9	6592.9	6572.6	6608.4	6610.8
12.5°	6493.7	6532.7	6514.0	6558.0	6557.1
15°	6427.8	6466.9	6447.3	6496.1	6499.4
17.5°	6350.6	6386.3	6371.7	6416.4	6398.5
20°	6261.1	6292.0	6284.7	6327.0	6314.0
22.5°	6151.3	6183.0	6175.7	6224.5	6205.0
25°	6031.7	6063.4	6054.5	6109.0	6091.1
27.5°	5902.4	5932.5	5931.7	5982.9	5955.3
30°	5752.7	5792.6	5795.0	5840.6	5808.1
32.5°	5604.7	5642.1	5652.7	5686.1	5658.4
35°	5438.8	5476.2	5488.4	5522.6	5492.5
37.5°	5259.9	5291.6	5313.5	5338.8	5315.2
40°	5070.4	5098.8	5115.1	5146.0	5115.1
42.5°	4858.9	4899.6	4922.3	4944.3	4893.9
45°	4640.1	4686.5	4696.2	4688.9	4091.9
47.5°	4408.3	4458.7	4464.4	3893.5	3783.7
50°	4152.9	4216.4	4215.5	3598.2	3568.9
52.5°	3886.9	3947.9	3945.5	3367.2	3347.7
55°	3600.7	3666.5	3220.0	3126.5	3128.1
57.5°	3308.7	3355.8	2889.0	2893.0	2839.4
60°	2991.5	3036.2	2609.2	2584.0	2491.3
62.5°	2673.4	2692.2	2338.4	2215.5	2039.0
65°	2338.4	2357.9	2047.2	1683.6	1458.3
67.5°	1994.3	2013.8	1699.1	1252.5	1235.5
70°	1647.8	1488.4	1289.1	1043.5	1051.6
72.5°	1306.2	1143.6	842.6	808.5	584.0
75°	985.0	863.0	654.7	440.0	427.8
77.5°	685.6	594.6	350.5	300.1	280.6
80°	425.4	298.5	209.8	186.3	178.9
82.5°	215.5	171.6	113.9	113.9	113.9
85°	87.8	62.6	64.3	69.9	70.8
87.5°	18.7	25.2	30.9	31.7	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)