

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

Luminaire Equipment: Sample No. Condition Description

Summary

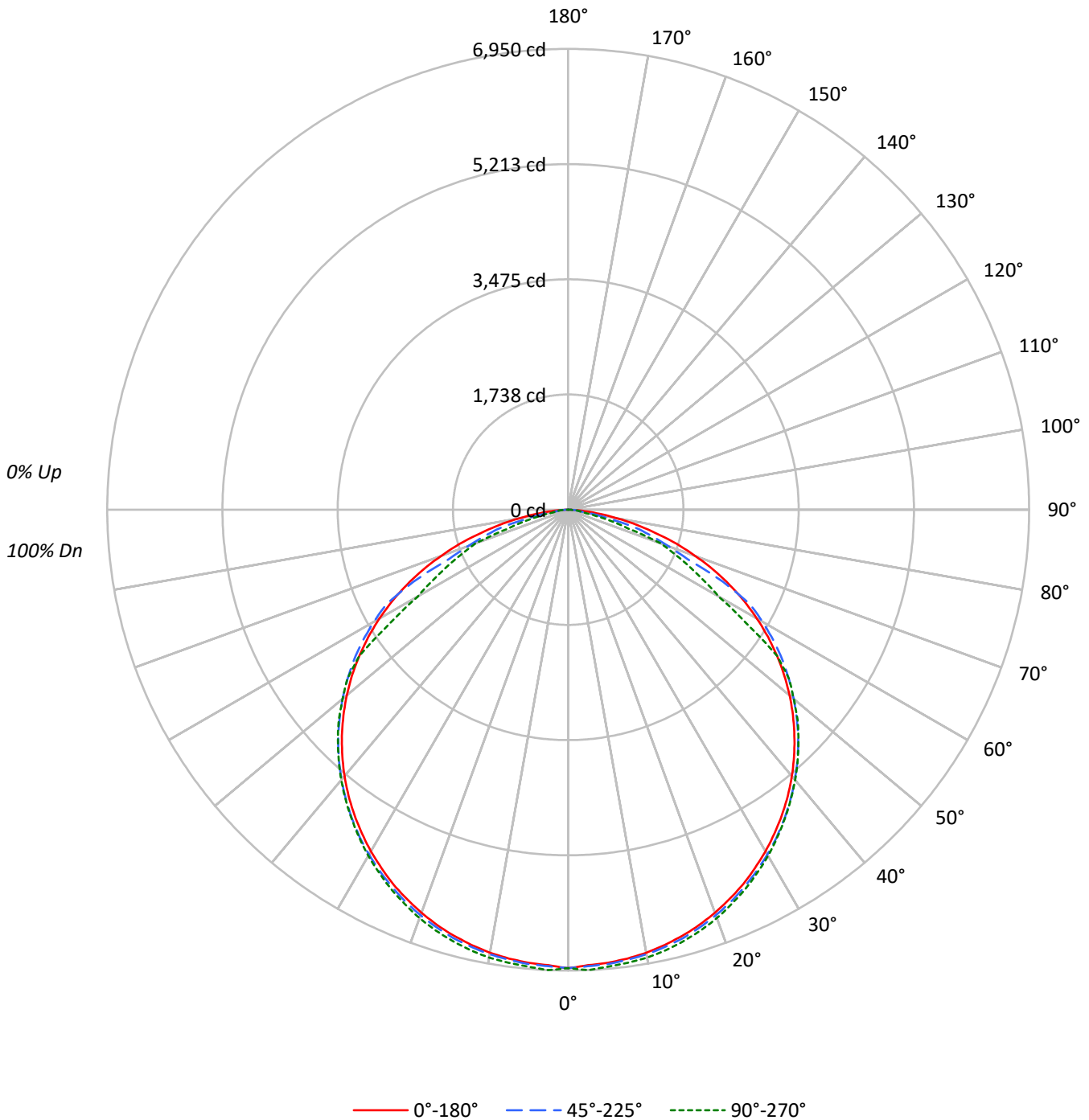
Lumens per Lamp: N/A
Luminaire Lumens: 19958.0 lumens
Efficiency: N/A
Efficacy: 178.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-W-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	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°	9302	9302	9302
5°	9263	9289	9342
10°	9269	9301	9372
15°	9266	9316	9380
20°	9261	9321	9386
25°	9258	9325	9376
30°	9242	9332	9367
35°	9230	9336	9349
40°	9214	9336	9350
45°	9179	9332	9343
50°	9124	9292	9291
55°	9017	9243	9014
60°	8850	9107	7053
65°	8555	8196	6354
70°	8015	6306	5856
75°	7097	5498	3649
80°	5844	3236	1631
85°	3852	1984	2137



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.0	3.3
10°-20°	1892.7	9.5
20°-30°	2901.8	14.5
30°-40°	3558.7	17.8
40°-50°	3778.8	18.9
50°-60°	3451.4	17.3
60°-70°	2403.6	12.0
70°-80°	1121.0	5.6
80°-90°	193.9	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°	5450.5	27.3
0°-40°	9009.2	45.1
0°-60°	16239.5	81.4
0°-90°	19958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19958.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6913	6913	6913	6913	6913	
5°	6859	6907	6878	6911	6917	652
15°	6652	6699	6688	6728	6734	1878
25°	6236	6291	6281	6327	6316	2874
35°	5620	5684	5684	5722	5692	3516
45°	4824	4897	4904	4936	4910	3720
55°	3844	3921	3940	3947	3842	3433
65°	2687	2770	2574	2047	1996	2651
75°	1365	1451	1058	733	702	1459
85°	250	164	128	138	138	322
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6913.3	6913.3	6913.3	6913.3	6913.3
2.5°	6876.8	6920.7	6891.7	6923.2	6949.7
5°	6858.6	6906.6	6877.6	6910.8	6916.6
7.5°	6828.7	6874.3	6847.8	6884.3	6893.4
10°	6784.0	6828.7	6808.0	6851.1	6859.4
12.5°	6723.5	6769.1	6753.3	6800.5	6806.4
15°	6652.2	6698.6	6687.8	6728.4	6734.2
17.5°	6568.5	6616.5	6604.1	6647.2	6651.4
20°	6468.2	6520.4	6509.6	6560.2	6555.2
22.5°	6355.5	6411.0	6402.7	6453.3	6438.4
25°	6236.1	6290.8	6280.9	6327.3	6315.7
27.5°	6096.0	6156.5	6147.4	6192.2	6174.0
30°	5948.5	6009.8	6006.5	6047.1	6028.9
32.5°	5789.4	5854.9	5851.5	5891.3	5863.1
35°	5619.5	5684.1	5684.1	5722.2	5691.6
37.5°	5439.6	5505.1	5505.9	5542.4	5513.4
40°	5245.7	5311.1	5315.3	5350.1	5323.6
42.5°	5041.8	5113.1	5116.4	5147.9	5123.0
45°	4823.8	4896.7	4904.2	4935.7	4910.0
47.5°	4595.9	4669.6	4676.3	4710.2	4692.0
50°	4358.8	4430.1	4439.2	4467.4	4438.4
52.5°	4108.5	4181.4	4193.9	4211.3	4198.0
55°	3844.1	3921.2	3940.3	3946.9	3842.5
57.5°	3570.6	3649.3	3667.6	3515.1	3179.4
60°	3288.8	3366.7	3384.1	2859.5	2620.8
62.5°	2995.4	3071.6	3090.7	2369.6	2293.4
65°	2687.1	2769.9	2574.3	2047.2	1995.8
67.5°	2370.5	2455.8	1946.9	1754.6	1724.0
70°	2037.3	2123.5	1603.0	1496.0	1488.6
72.5°	1717.3	1781.2	1315.4	1133.8	954.8
75°	1365.1	1451.3	1057.6	732.7	702.0
77.5°	1058.4	915.0	638.2	537.1	423.5
80°	754.2	611.7	417.7	223.0	210.5
82.5°	478.2	399.5	164.1	168.3	175.7
85°	249.5	164.1	128.5	137.6	138.4
87.5°	80.4	70.5	77.1	76.3	75.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)