

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-WG-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-WG-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

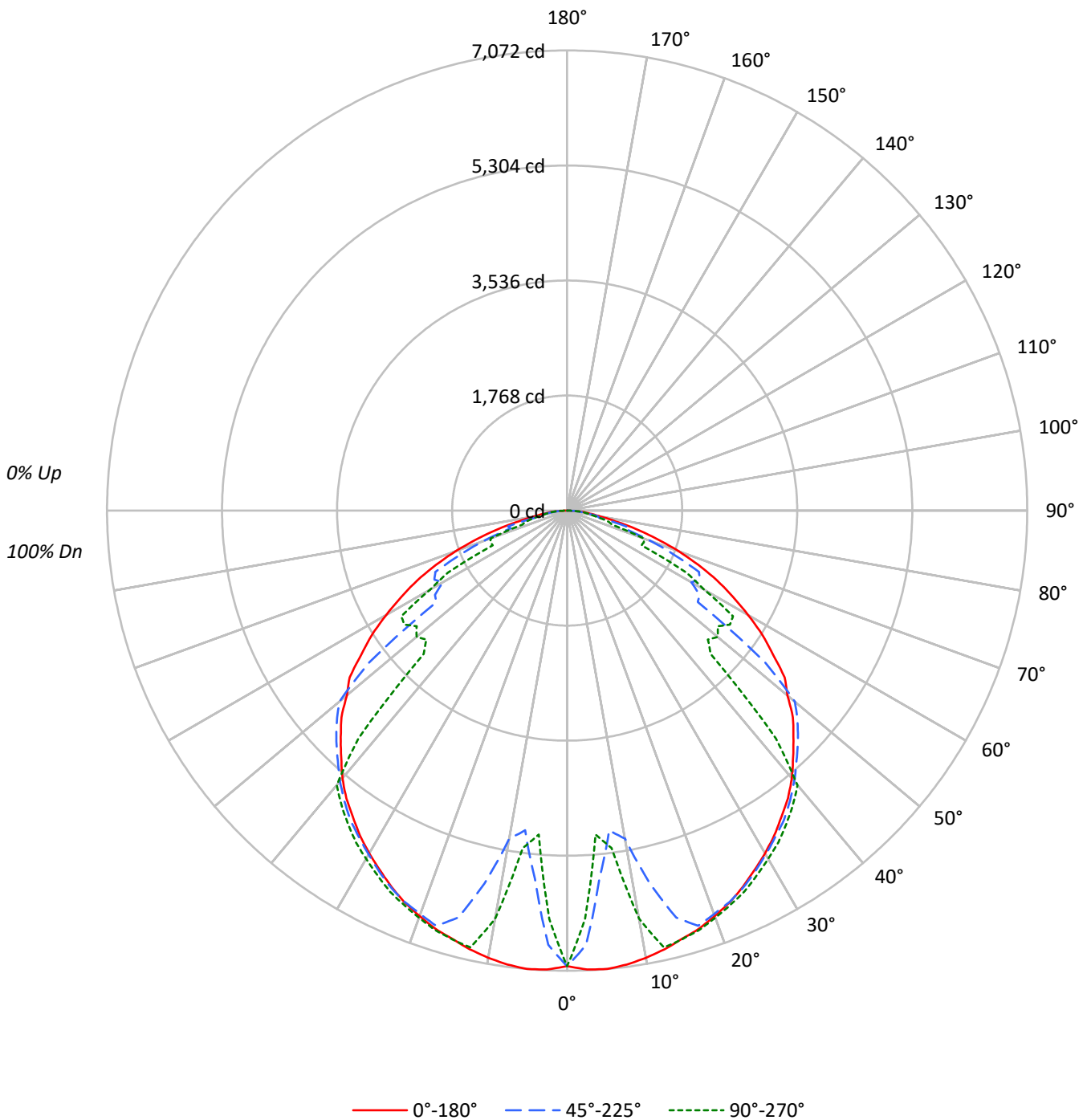
Lumens per Lamp: N/A
Luminaire Lumens: 18549.0 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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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	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	103	99	96	98	95	93	95	92	90	91	89	87	85																												
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72																												
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61																												
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52																												
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																												
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39																												
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35																												
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31																												
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																												
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9421	9421	9421
5°	9552	7673	6748
10°	9535	6998	8704
15°	9493	9019	9501
20°	9493	9450	9534
25°	9476	9497	9584
30°	9448	9480	9602
35°	9434	9538	9650
40°	9435	9538	9674
45°	9361	9544	5931
50°	9255	9563	6321
55°	9060	5750	7165
60°	8642	5927	6561
65°	8098	7117	4014
70°	7150	5391	4921
75°	5697	4901	3412
80°	3925	3542	2932
85°	3761	3270	3101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.9	3.0
10°-20°	1754.0	9.5
20°-30°	2885.8	15.6
30°-40°	3628.5	19.6
40°-50°	3558.6	19.2
50°-60°	2948.5	15.9
60°-70°	2079.6	11.2
70°-80°	907.3	4.9
80°-90°	226.7	1.2
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°	5199.7	28.0
0°-40°	8828.2	47.6
0°-60°	15335.3	82.7
0°-90°	18549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7002	7002	7002	7002	7002	
5°	7072	6582	5681	5151	4996	671
15°	6815	4733	6475	6842	6821	1927
25°	6383	5840	6397	6440	6456	2942
35°	5743	5740	5807	5845	5875	3598
45°	4920	4935	5016	4442	3117	3797
55°	3862	3988	2451	2787	3054	3455
65°	2544	2693	2235	1720	1261	2501
75°	1096	1074	943	616	656	1175
85°	244	217	212	203	201	253
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7001.6	7001.6	7001.6	7001.6	7001.6
2.5°	7059.4	6912.9	6680.2	6387.1	6283.3
5°	7072.0	6582.2	5681.4	5151.4	4996.5
7.5°	7036.0	5981.9	4953.0	5064.3	5228.4
10°	6979.0	5454.5	5122.1	6026.3	6370.4
12.5°	6906.2	4985.6	5868.1	6807.4	6876.1
15°	6814.9	4732.8	6475.0	6841.7	6820.8
17.5°	6737.9	4881.0	6692.7	6773.1	6758.0
20°	6629.9	5176.5	6599.8	6664.2	6658.4
22.5°	6521.1	5526.5	6511.9	6557.9	6557.9
25°	6382.9	5840.4	6397.2	6439.9	6455.8
27.5°	6231.4	6021.3	6254.0	6289.2	6317.6
30°	6081.5	6047.2	6101.6	6146.8	6180.3
32.5°	5923.3	5909.9	5952.6	6000.3	6043.0
35°	5743.3	5740.0	5806.9	5845.4	5874.8
37.5°	5574.2	5562.5	5624.4	5678.0	5700.6
40°	5371.6	5371.6	5430.2	5484.6	5508.0
42.5°	5140.5	5173.2	5218.4	5274.5	4750.4
45°	4919.5	4934.6	5015.8	4442.3	3117.0
47.5°	4706.8	4726.1	4803.1	2855.7	2933.6
50°	4421.3	4508.4	4568.7	2847.4	3019.8
52.5°	4212.9	4250.5	3835.3	2818.9	2916.0
55°	3862.1	3988.5	2451.4	2787.1	3054.2
57.5°	3562.4	3654.5	2410.3	2855.7	3021.5
60°	3211.6	3352.2	2202.7	2755.3	2438.0
62.5°	2875.0	3009.0	2299.8	2168.4	2064.6
65°	2543.5	2693.3	2235.4	1719.6	1260.8
67.5°	2180.1	2040.3	1783.3	1211.5	1275.1
70°	1817.6	1424.9	1370.5	1354.6	1250.8
72.5°	1445.0	1039.8	910.1	1016.4	727.5
75°	1095.9	1074.1	942.7	616.2	656.4
77.5°	760.2	775.3	504.8	601.1	499.0
80°	506.5	438.7	457.1	383.4	378.4
82.5°	350.8	358.3	300.6	291.4	295.5
85°	243.6	216.8	211.8	202.6	200.9
87.5°	81.2	94.6	87.9	79.5	84.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)