

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-A-UNV-L850-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 (P23761)
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-A-UNV-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

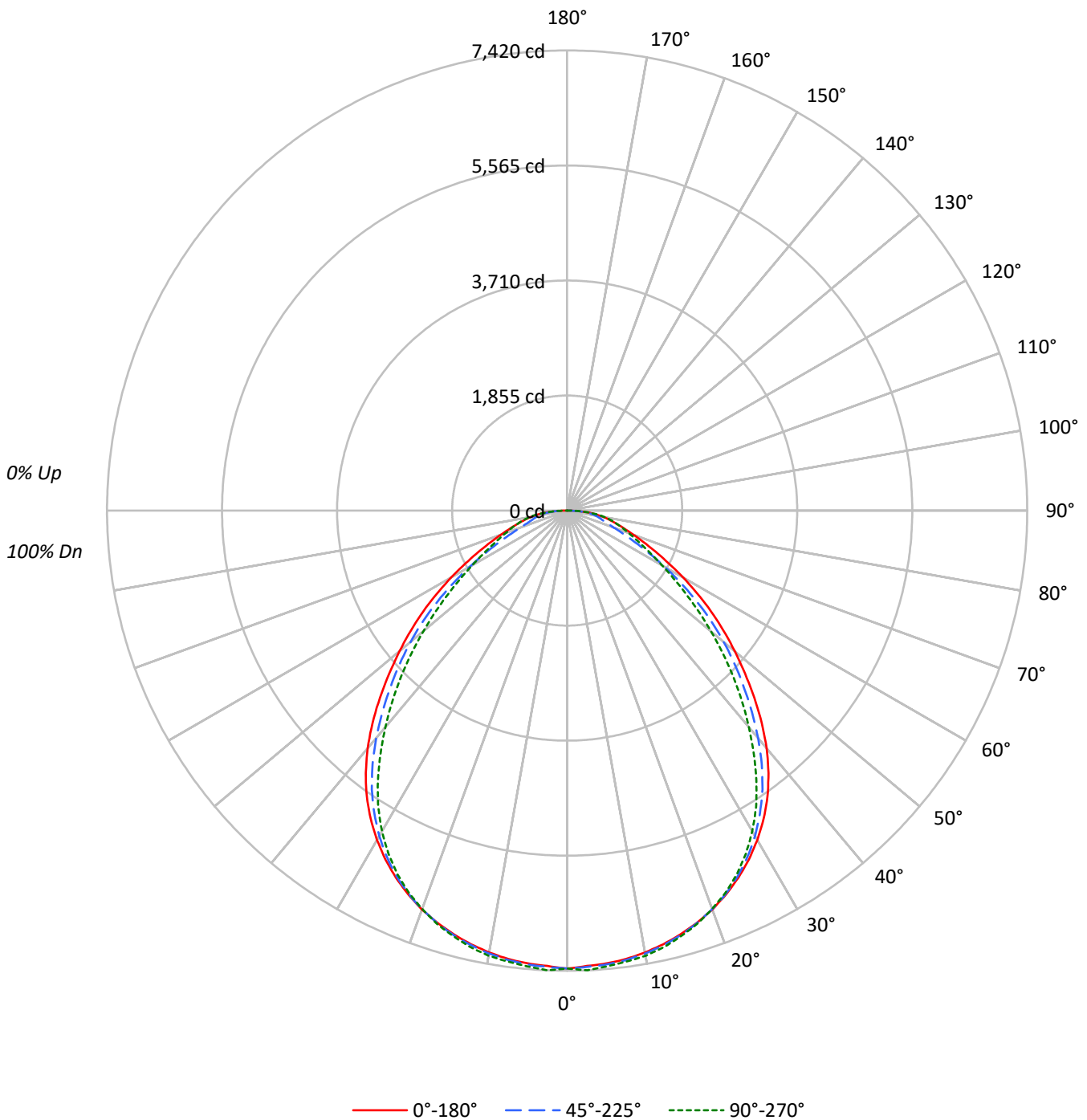
Lumens per Lamp: N/A
Luminaire Lumens: 16962.0 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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-A-UNV-L850-ED2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-W-A-UNV-L850-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	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	86	81	88	83	79	85	81	77	82	78	75	73																												
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63																												
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55																												
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49																												
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43																												
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38																												
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35																												
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31																												
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9935	9935	9935
5°	9900	9922	9963
10°	9886	9908	9958
15°	9853	9872	9896
20°	9801	9794	9787
25°	9695	9661	9607
30°	9527	9412	9275
35°	9250	9018	8740
40°	8790	8413	8009
45°	8121	7668	7203
50°	7382	6904	6336
55°	6638	5978	5477
60°	5808	4885	4753
65°	5008	3841	4290
70°	4465	3135	4134
75°	4277	3060	4321
80°	4627	3620	4813
85°	5193	4358	5246



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-W-A-UNV-L850-ED2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.8	4.1
10°-20°	2002.8	11.8
20°-30°	2996.0	17.7
30°-40°	3418.2	20.2
40°-50°	3111.5	18.3
50°-60°	2284.7	13.5
60°-70°	1349.0	8.0
70°-80°	773.1	4.6
80°-90°	326.9	1.9
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°	5698.6	33.6
0°-40°	9116.8	53.7
0°-60°	14513.0	85.6
0°-90°	16962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16962.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7384	7384	7384	7384	7384	
5°	7330	7376	7346	7376	7376	697
15°	7073	7112	7087	7112	7104	1996
25°	6530	6554	6508	6505	6471	3006
35°	5632	5604	5490	5396	5321	3509
45°	4268	4243	4030	3849	3786	3289
55°	2830	2699	2548	2363	2335	2531
65°	1573	1373	1207	1291	1347	1583
75°	823	705	589	768	831	887
85°	336	311	282	333	340	352
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-W-A-UNV-L850-ED2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7383.8	7383.8	7383.8	7383.8	7383.8
2.5°	7349.7	7392.2	7365.5	7394.7	7419.7
5°	7329.7	7375.5	7346.4	7375.5	7376.4
7.5°	7293.1	7335.5	7307.2	7338.9	7335.5
10°	7235.6	7278.1	7252.3	7286.4	7288.9
12.5°	7162.3	7203.1	7176.5	7215.6	7209.0
15°	7073.2	7112.4	7087.4	7112.4	7104.0
17.5°	6968.3	7004.1	6971.6	6999.1	6985.0
20°	6845.1	6875.0	6840.1	6865.9	6835.1
22.5°	6697.7	6724.3	6687.7	6701.8	6670.2
25°	6530.3	6553.6	6507.8	6505.3	6471.2
27.5°	6343.8	6356.3	6298.0	6278.0	6238.8
30°	6132.2	6135.6	6058.1	6020.7	5969.9
32.5°	5894.9	5886.6	5787.5	5731.7	5669.2
35°	5631.8	5604.3	5490.2	5396.1	5321.2
37.5°	5334.5	5291.2	5154.6	5015.6	4943.9
40°	5004.7	4953.9	4789.9	4617.5	4560.0
42.5°	4645.8	4602.5	4409.3	4229.5	4172.8
45°	4267.8	4242.8	4029.6	3848.9	3785.6
47.5°	3889.7	3871.4	3663.2	3479.2	3402.5
50°	3526.6	3486.7	3298.5	3096.9	3027.0
52.5°	3174.4	3092.8	2927.1	2720.5	2668.9
55°	2829.6	2698.9	2548.2	2363.3	2335.0
57.5°	2488.2	2319.2	2172.6	2034.4	2033.5
60°	2158.4	1965.3	1815.4	1742.9	1766.2
62.5°	1849.5	1651.3	1488.9	1493.9	1536.4
65°	1573.0	1373.2	1206.6	1290.7	1347.4
67.5°	1335.7	1145.0	976.0	1132.5	1186.6
70°	1135.0	962.6	796.9	992.6	1050.9
72.5°	966.0	821.1	672.0	876.0	935.2
75°	822.7	705.3	588.7	767.8	831.1
77.5°	706.2	602.1	528.0	664.5	730.3
80°	597.1	505.5	467.2	564.6	621.2
82.5°	473.0	409.7	387.2	458.8	488.0
85°	336.4	310.6	282.3	333.1	339.8
87.5°	184.9	191.5	158.2	191.5	192.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)