

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-L735-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-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

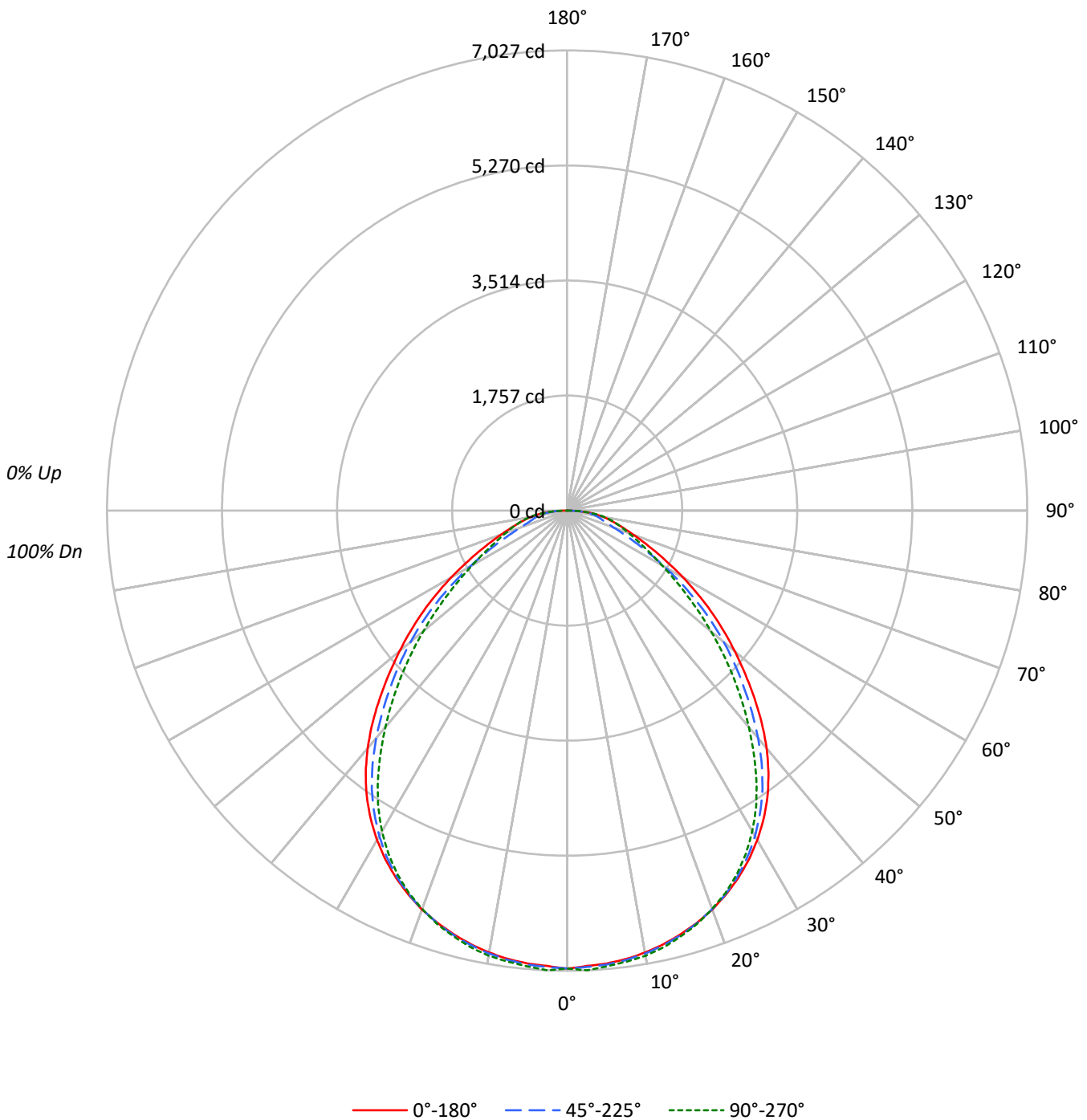
Lumens per Lamp: N/A
Luminaire Lumens: 16064.0 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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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	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°	9409	9409	9409
5°	9376	9397	9435
10°	9362	9384	9431
15°	9331	9350	9372
20°	9282	9275	9269
25°	9182	9150	9098
30°	9023	8914	8784
35°	8761	8540	8278
40°	8325	7968	7585
45°	7691	7262	6822
50°	6991	6539	6001
55°	6286	5661	5187
60°	5501	4626	4501
65°	4743	3638	4062
70°	4229	2969	3915
75°	4051	2899	4092
80°	4382	3428	4558
85°	4918	4128	4968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.8	4.1
10°-20°	1896.8	11.8
20°-30°	2837.4	17.7
30°-40°	3237.2	20.2
40°-50°	2946.8	18.3
50°-60°	2163.8	13.5
60°-70°	1277.6	8.0
70°-80°	732.2	4.6
80°-90°	309.6	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°	5396.9	33.6
0°-40°	8634.1	53.7
0°-60°	13744.6	85.6
0°-90°	16064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6993	6993	6993	6993	6993	
5°	6942	6985	6957	6985	6986	660
15°	6699	6736	6712	6736	6728	1890
25°	6185	6207	6163	6161	6129	2847
35°	5334	5308	5200	5110	5040	3323
45°	4042	4018	3816	3645	3585	3115
55°	2680	2556	2413	2238	2211	2397
65°	1490	1300	1143	1222	1276	1499
75°	779	668	558	727	787	840
85°	319	294	267	316	322	333
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6992.9	6992.9	6992.9	6992.9	6992.9
2.5°	6960.6	7000.8	6975.6	7003.2	7026.8
5°	6941.7	6985.0	6957.4	6985.0	6985.8
7.5°	6907.0	6947.2	6920.4	6950.3	6947.2
10°	6852.6	6892.8	6868.3	6900.7	6903.0
12.5°	6783.2	6821.8	6796.6	6833.6	6827.3
15°	6698.8	6735.8	6712.2	6735.8	6727.9
17.5°	6599.4	6633.3	6602.5	6628.6	6615.2
20°	6482.7	6511.1	6477.9	6502.4	6473.2
22.5°	6343.1	6368.3	6333.6	6347.0	6317.1
25°	6184.6	6206.6	6163.3	6160.9	6128.6
27.5°	6007.9	6019.7	5964.5	5945.6	5908.5
30°	5807.6	5810.7	5737.4	5701.9	5653.8
32.5°	5582.8	5574.9	5481.1	5428.3	5369.1
35°	5333.6	5307.6	5199.5	5110.4	5039.5
37.5°	5052.1	5011.1	4881.7	4750.0	4682.2
40°	4739.8	4691.7	4536.3	4373.0	4318.6
42.5°	4399.9	4358.9	4175.9	4005.5	3951.9
45°	4041.8	4018.2	3816.3	3645.1	3585.2
47.5°	3683.8	3666.4	3469.3	3295.0	3222.4
50°	3339.9	3302.1	3123.8	2933.0	2866.7
52.5°	3006.3	2929.0	2772.1	2576.5	2527.6
55°	2679.8	2556.0	2413.3	2238.2	2211.4
57.5°	2356.5	2196.4	2057.6	1926.7	1925.9
60°	2044.2	1861.2	1719.2	1650.6	1672.7
62.5°	1751.6	1563.9	1410.1	1414.8	1455.1
65°	1489.8	1300.5	1142.7	1222.4	1276.0
67.5°	1265.0	1084.4	924.3	1072.6	1123.8
70°	1074.9	911.7	754.7	940.1	995.3
72.5°	914.8	777.6	636.4	829.7	885.7
75°	779.2	668.0	557.6	727.1	787.1
77.5°	668.8	570.2	500.0	629.3	691.6
80°	565.5	478.7	442.4	534.7	588.3
82.5°	448.0	388.0	366.7	434.5	462.1
85°	318.6	294.2	267.4	315.5	321.8
87.5°	175.1	181.4	149.8	181.4	182.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)