

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-CLWG-UNV-L840-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-CLWG-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16281.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

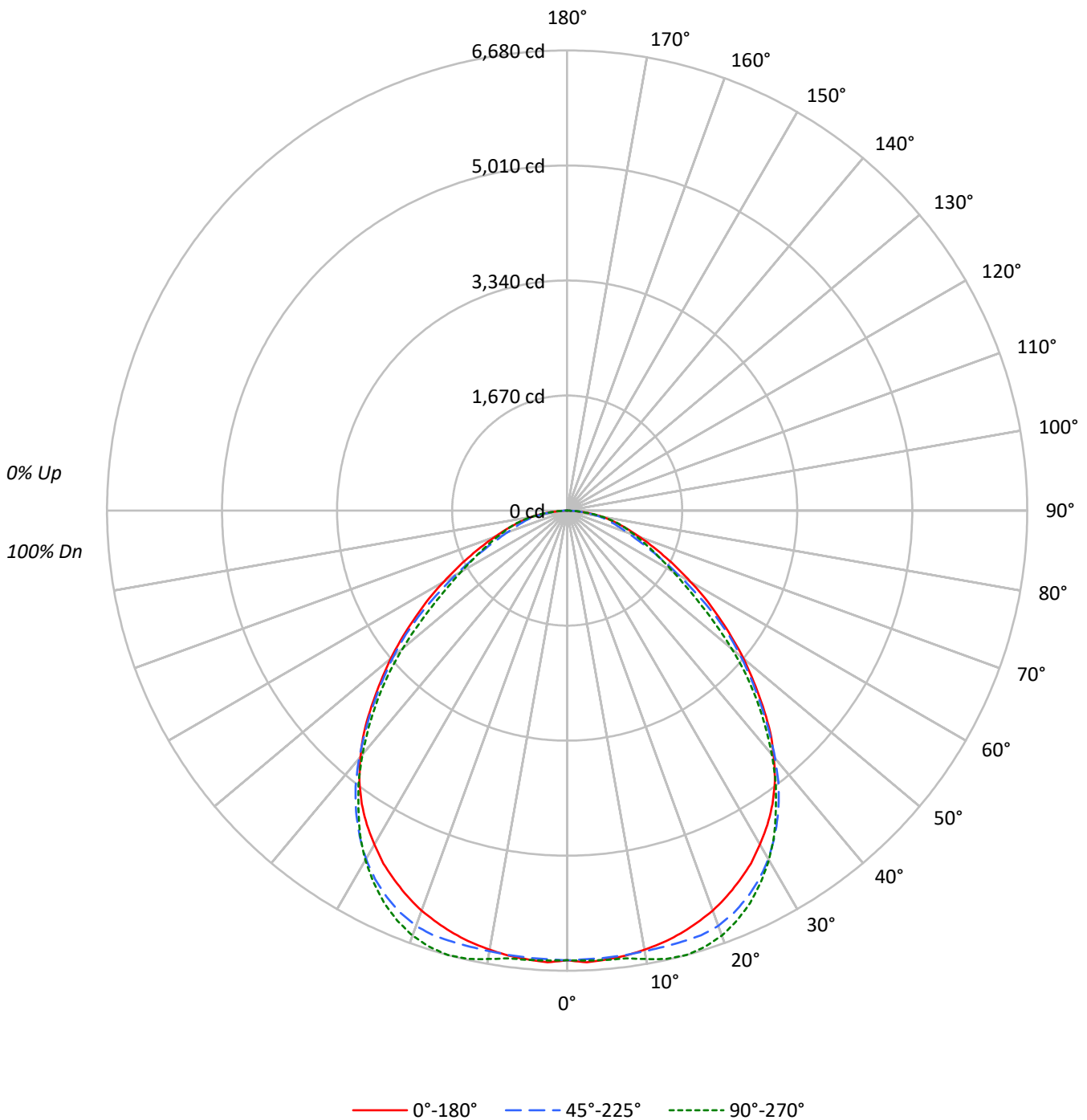
Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63				63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55				55
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48				48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42				42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38				38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34				34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31				31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8784	8784	8784
5°	8835	8799	8842
10°	8843	8873	9032
15°	8854	9021	9305
20°	8848	9186	9400
25°	8794	9194	9329
30°	8693	9072	9101
35°	8538	8779	8673
40°	8201	8251	8121
45°	7641	7561	7408
50°	6996	6884	6531
55°	6284	6051	5522
60°	5573	5007	4767
65°	4911	4160	4326
70°	4392	3610	4120
75°	4114	3510	4167
80°	4005	3549	3966
85°	3197	2808	2912



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.9	3.8
10°-20°	1831.8	11.3
20°-30°	2818.0	17.3
30°-40°	3288.7	20.2
40°-50°	3056.1	18.8
50°-60°	2265.3	13.9
60°-70°	1384.8	8.5
70°-80°	788.8	4.8
80°-90°	225.6	1.4
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°	5271.6	32.4
0°-40°	8560.4	52.6
0°-60°	13881.8	85.3
0°-90°	16281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16281.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6528	6528	6528	6528	6528	
5°	6542	6511	6515	6510	6547	622
15°	6356	6353	6476	6604	6680	1794
25°	5924	5969	6193	6245	6284	2729
35°	5198	5238	5344	5301	5280	3239
45°	4016	4040	3974	3912	3893	3095
55°	2679	2612	2580	2396	2354	2404
65°	1542	1401	1307	1342	1359	1544
75°	791	743	675	770	802	847
85°	207	202	182	189	189	239
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6528.2	6528.2	6528.2	6528.2	6528.2
2.5°	6563.6	6526.5	6519.8	6504.6	6538.3
5°	6541.7	6511.4	6514.7	6509.7	6546.7
7.5°	6516.4	6494.5	6508.0	6506.3	6555.2
10°	6472.6	6460.9	6494.5	6531.6	6610.7
12.5°	6423.8	6412.0	6486.1	6580.4	6666.3
15°	6356.5	6353.1	6476.0	6604.0	6679.8
17.5°	6272.3	6277.3	6464.2	6573.7	6641.0
20°	6179.7	6188.1	6415.4	6504.6	6565.3
22.5°	6060.1	6088.7	6321.1	6395.2	6442.3
25°	5923.7	5969.2	6193.1	6245.3	6284.1
27.5°	5777.2	5822.7	6034.8	6061.8	6083.7
30°	5595.4	5659.4	5839.5	5842.9	5858.0
32.5°	5410.1	5467.4	5605.5	5590.3	5593.7
35°	5198.0	5238.4	5344.5	5300.7	5280.5
37.5°	4953.8	4975.7	5043.1	4977.4	4974.0
40°	4669.3	4697.9	4697.9	4607.0	4623.8
42.5°	4366.2	4376.3	4334.2	4248.3	4261.8
45°	4015.9	4039.5	3973.8	3911.5	3893.0
47.5°	3669.1	3692.6	3623.6	3551.2	3519.2
50°	3342.4	3330.6	3288.5	3165.6	3120.1
52.5°	3004.0	2966.9	2950.1	2769.9	2717.7
55°	2679.0	2611.6	2579.6	2396.1	2354.0
57.5°	2377.6	2256.3	2195.7	2052.6	2035.8
60°	2071.1	1934.7	1860.6	1768.0	1771.4
62.5°	1793.3	1650.2	1560.9	1534.0	1545.8
65°	1542.4	1400.9	1306.7	1342.0	1358.9
67.5°	1315.1	1198.9	1092.8	1175.3	1192.2
70°	1116.4	1023.8	917.7	1038.9	1047.3
72.5°	951.4	875.6	786.3	900.8	919.4
75°	791.4	742.6	675.2	769.5	801.5
77.5°	651.6	612.9	574.2	631.4	666.8
80°	516.9	478.2	458.0	488.3	511.9
82.5°	365.4	340.1	319.9	341.8	353.6
85°	207.1	202.1	181.9	188.6	188.6
87.5°	47.1	53.9	60.6	55.6	47.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)