

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-CLI-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 (P23766)
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-CLI-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

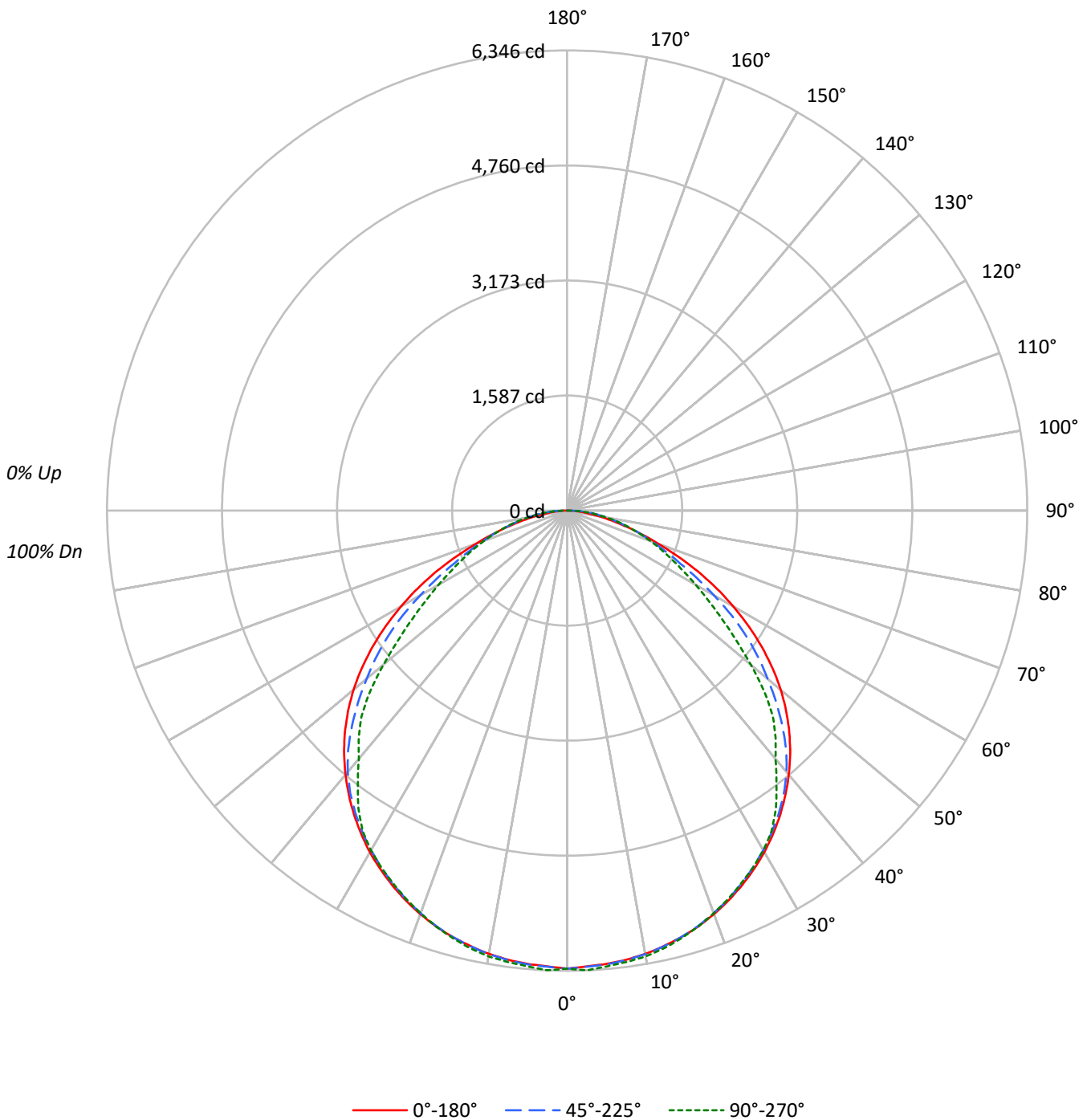
Lumens per Lamp: N/A
Luminaire Lumens: 16971.0 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	90	91	89	87	85																												
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71																												
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61																												
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52																												
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45																												
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40																												
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35																												
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31																												
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28																												
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8499	8499	8499
5°	8476	8482	8520
10°	8481	8485	8530
15°	8482	8481	8501
20°	8480	8460	8462
25°	8467	8435	8425
30°	8453	8402	8407
35°	8414	8361	8243
40°	8354	8268	7852
45°	8248	7984	7634
50°	8049	7559	6914
55°	7683	7069	6114
60°	7130	6307	5514
65°	6337	5461	5070
70°	5259	4880	4779
75°	4253	4467	4522
80°	3378	4272	4254
85°	2646	4590	4378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.0	3.5
10°-20°	1723.1	10.2
20°-30°	2627.4	15.5
30°-40°	3178.8	18.7
40°-50°	3219.8	19.0
50°-60°	2661.2	15.7
60°-70°	1757.7	10.4
70°-80°	916.5	5.4
80°-90°	287.3	1.7
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°	4949.5	29.2
0°-40°	8128.3	47.9
0°-60°	14009.4	82.5
0°-90°	16971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6317	6317	6317	6317	6317	
5°	6276	6314	6280	6308	6308	597
15°	6089	6120	6088	6107	6103	1719
25°	5703	5726	5682	5696	5675	2630
35°	5122	5129	5090	5084	5018	3204
45°	4334	4323	4196	4065	4012	3338
55°	3275	3227	3014	2721	2606	2919
65°	1991	1933	1715	1604	1592	1966
75°	818	833	859	870	870	891
85°	171	221	297	295	284	208
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6316.7	6316.7	6316.7	6316.7	6316.7
2.5°	6290.2	6327.3	6296.2	6323.5	6345.5
5°	6275.8	6313.7	6280.3	6307.6	6308.4
7.5°	6247.7	6285.6	6251.5	6278.8	6278.0
10°	6207.5	6243.1	6210.5	6243.1	6243.1
12.5°	6152.9	6187.8	6155.9	6186.3	6181.7
15°	6089.2	6120.3	6088.5	6107.4	6102.9
17.5°	6014.1	6042.2	6006.6	6022.5	6013.4
20°	5922.4	5948.2	5908.7	5929.2	5910.2
22.5°	5819.3	5843.5	5803.3	5818.5	5797.3
25°	5703.2	5726.0	5682.0	5696.4	5675.2
27.5°	5578.1	5598.6	5549.3	5566.7	5550.1
30°	5440.9	5450.7	5408.2	5431.0	5411.3
32.5°	5287.7	5293.7	5256.6	5277.1	5243.7
35°	5122.4	5129.2	5090.5	5083.7	5018.5
37.5°	4945.7	4948.7	4912.3	4850.9	4743.2
40°	4756.1	4754.6	4707.6	4565.8	4470.2
42.5°	4553.6	4552.9	4470.2	4308.7	4254.1
45°	4334.5	4323.1	4195.7	4065.3	4012.2
47.5°	4099.4	4087.3	3909.1	3805.2	3684.6
50°	3845.4	3824.1	3611.1	3469.3	3303.2
52.5°	3571.6	3539.0	3322.1	3093.1	2936.2
55°	3275.1	3226.6	3013.5	2720.8	2606.3
57.5°	2966.5	2894.5	2687.4	2402.3	2309.0
60°	2649.5	2569.1	2343.9	2109.6	2048.9
62.5°	2323.5	2243.8	2014.1	1837.4	1804.0
65°	1990.6	1932.9	1715.3	1603.8	1592.4
67.5°	1649.3	1628.8	1462.8	1405.9	1401.4
70°	1336.9	1333.1	1240.6	1211.8	1214.8
72.5°	1068.5	1063.9	1050.3	1035.8	1036.6
75°	818.2	832.6	859.2	870.5	869.8
77.5°	610.4	640.0	696.1	718.9	715.1
80°	436.0	480.0	551.3	572.5	549.0
82.5°	290.4	336.7	420.9	423.9	404.9
85°	171.4	220.7	297.3	295.0	283.6
87.5°	84.9	132.7	178.2	170.6	163.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)