

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-A-UNV-L735-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 (P23761)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-A-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

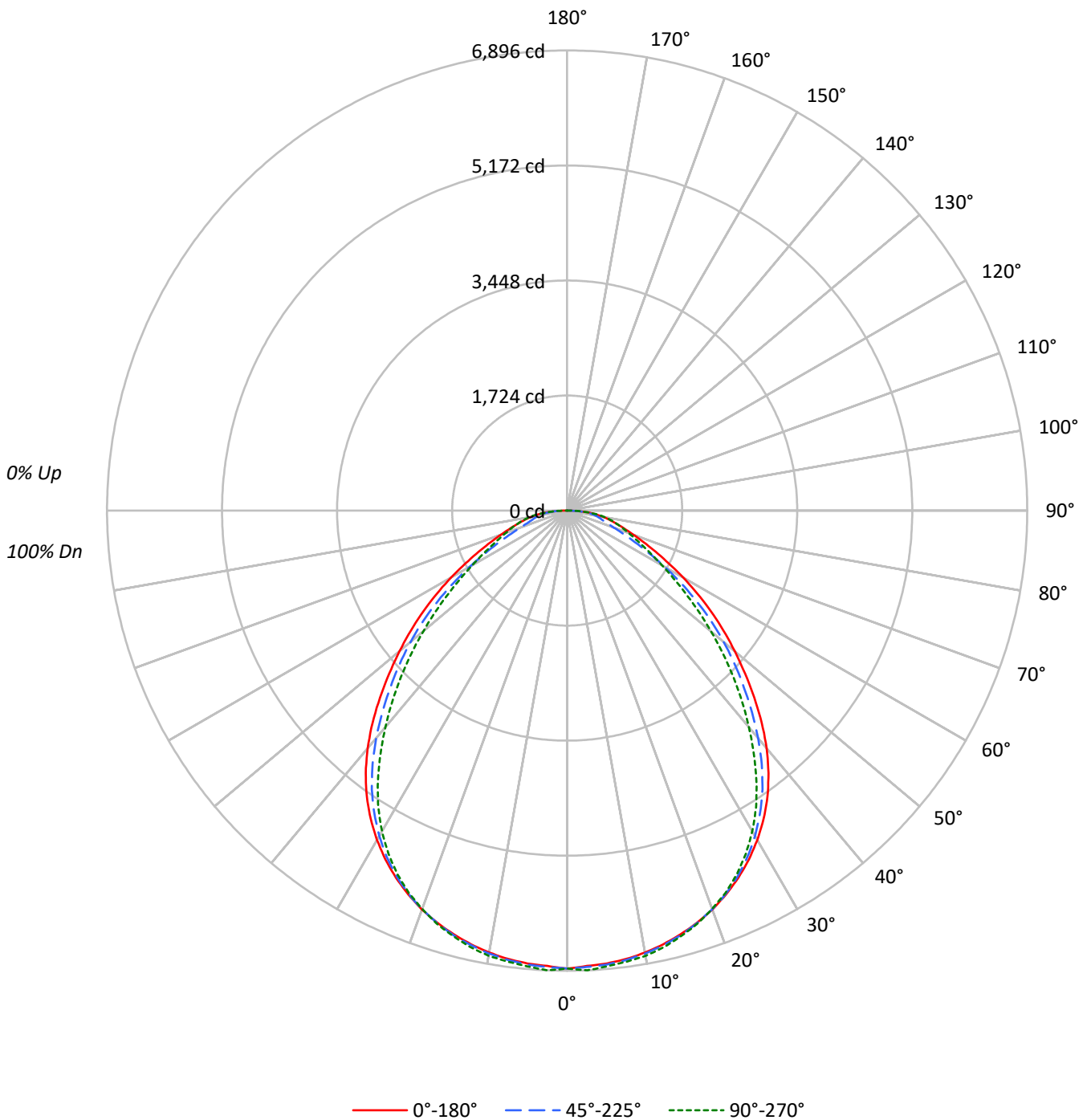
Lumens per Lamp: N/A
Luminaire Lumens: 15765.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	101	98	107	103	100	96	99	96	93	95	93	90	91	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	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9234	9234	9234
5°	9201	9222	9260
10°	9188	9209	9256
15°	9157	9176	9197
20°	9109	9103	9096
25°	9011	8980	8929
30°	8855	8748	8621
35°	8598	8382	8124
40°	8170	7819	7444
45°	7548	7126	6695
50°	6861	6417	5889
55°	6169	5556	5091
60°	5398	4540	4418
65°	4655	3571	3987
70°	4150	2914	3842
75°	3975	2845	4015
80°	4300	3364	4474
85°	4827	4051	4875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.4	4.1
10°-20°	1861.5	11.8
20°-30°	2784.6	17.7
30°-40°	3177.0	20.2
40°-50°	2891.9	18.3
50°-60°	2123.5	13.5
60°-70°	1253.8	8.0
70°-80°	718.6	4.6
80°-90°	303.8	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°	5296.4	33.6
0°-40°	8473.4	53.7
0°-60°	13488.8	85.6
0°-90°	15765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15765.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6863	6863	6863	6863	6863	
5°	6812	6855	6828	6855	6856	648
15°	6574	6610	6587	6610	6603	1855
25°	6070	6091	6049	6046	6014	2794
35°	5234	5209	5103	5015	4946	3261
45°	3967	3943	3745	3577	3518	3057
55°	2630	2508	2368	2196	2170	2352
65°	1462	1276	1122	1200	1252	1471
75°	765	656	547	714	772	824
85°	313	289	262	310	316	327
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6862.8	6862.8	6862.8	6862.8	6862.8
2.5°	6831.0	6870.5	6845.7	6872.8	6896.1
5°	6812.5	6855.0	6827.9	6855.0	6855.8
7.5°	6778.4	6817.9	6791.6	6821.0	6817.9
10°	6725.0	6764.5	6740.5	6772.2	6774.5
12.5°	6656.9	6694.8	6670.1	6706.4	6700.2
15°	6574.1	6610.5	6587.2	6610.5	6602.7
17.5°	6476.6	6509.8	6479.7	6505.2	6492.0
20°	6362.0	6389.9	6357.4	6381.4	6352.7
22.5°	6225.0	6249.8	6215.7	6228.9	6199.5
25°	6069.5	6091.1	6048.6	6046.2	6014.5
27.5°	5896.1	5907.7	5853.5	5834.9	5798.6
30°	5699.5	5702.6	5630.6	5595.8	5548.6
32.5°	5478.9	5471.2	5379.1	5327.2	5269.2
35°	5234.3	5208.8	5102.8	5015.3	4945.7
37.5°	4958.0	4917.8	4790.9	4661.6	4595.0
40°	4651.5	4604.3	4451.9	4291.7	4238.2
42.5°	4318.0	4277.7	4098.2	3931.0	3878.4
45°	3966.6	3943.4	3745.2	3577.3	3518.5
47.5°	3615.2	3598.2	3404.7	3233.6	3162.4
50°	3277.8	3240.6	3065.7	2878.4	2813.4
52.5°	2950.4	2874.5	2720.5	2528.6	2480.6
55°	2629.9	2508.4	2368.3	2196.5	2170.2
57.5°	2312.6	2155.5	2019.3	1890.8	1890.0
60°	2006.1	1826.6	1687.2	1619.9	1641.6
62.5°	1719.0	1534.8	1383.9	1388.5	1428.0
65°	1462.0	1276.3	1121.5	1199.6	1252.3
67.5°	1241.4	1064.2	907.1	1052.6	1102.9
70°	1054.9	894.7	740.7	922.6	976.7
72.5°	897.8	763.1	624.6	814.2	869.2
75°	764.7	655.6	547.2	713.6	772.4
77.5°	656.3	559.6	490.7	617.6	678.8
80°	554.9	469.8	434.2	524.8	577.4
82.5°	439.6	380.8	359.9	426.5	453.5
85°	312.7	288.7	262.4	309.6	315.8
87.5°	171.8	178.0	147.1	178.0	178.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)