

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-CLWG-UNV-L835-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-CLWG-UNV-L835-ED1-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: 15795.0 lumens
Efficiency: N/A
Efficacy: 129.7 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

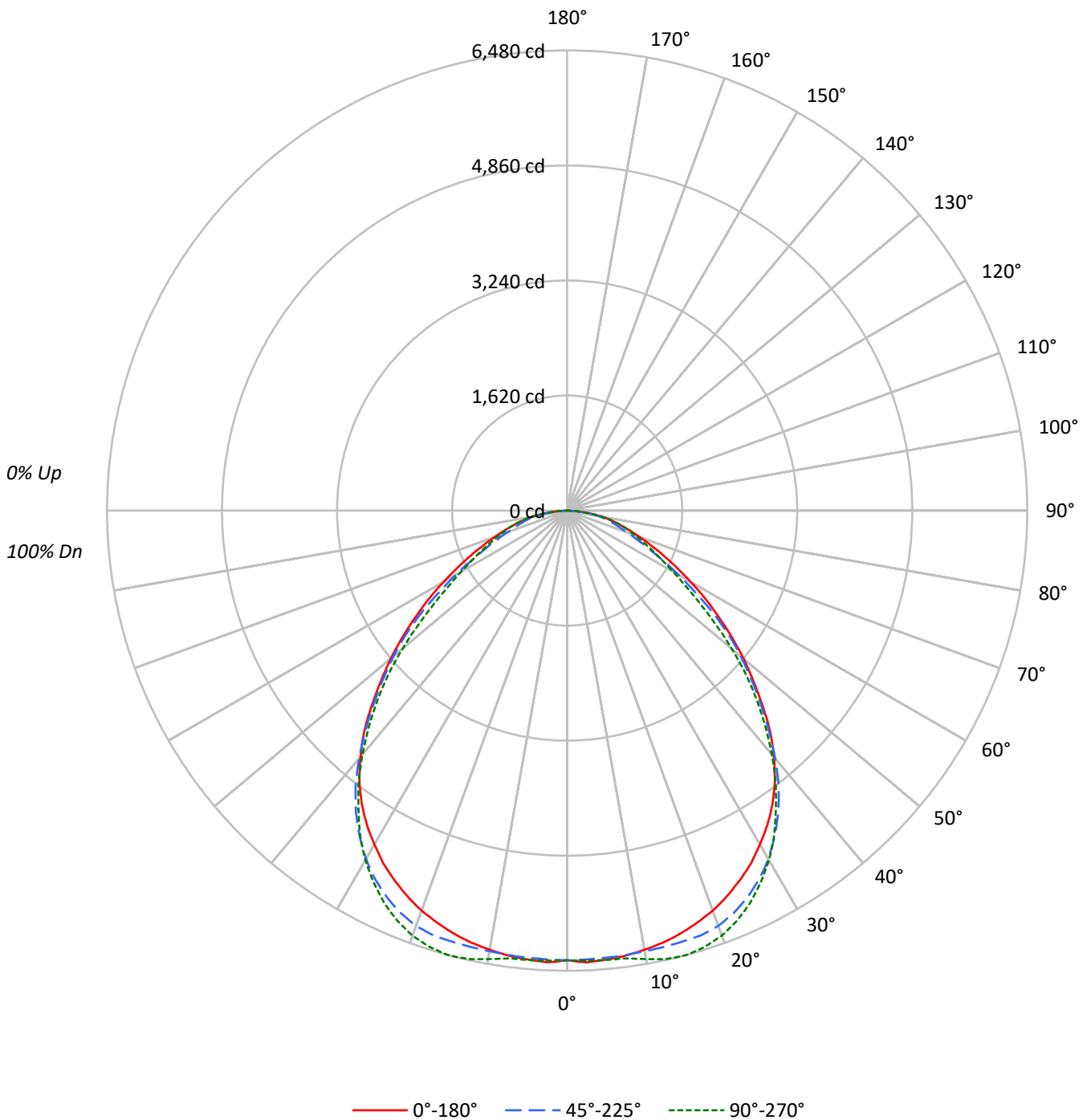
Input Watts (W): 121.76
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18SE-W-CLWG-UNV-L835-ED1-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8521	8521	8521
5°	8572	8536	8578
10°	8579	8608	8762
15°	8590	8752	9027
20°	8584	8912	9120
25°	8532	8920	9051
30°	8434	8802	8830
35°	8283	8516	8415
40°	7956	8005	7879
45°	7414	7336	7187
50°	6787	6678	6336
55°	6097	5871	5357
60°	5407	4857	4624
65°	4764	4036	4197
70°	4261	3502	3997
75°	3991	3406	4042
80°	3886	3443	3848
85°	3101	2723	2825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.3	3.8
10°-20°	1777.1	11.3
20°-30°	2733.9	17.3
30°-40°	3190.6	20.2
40°-50°	2964.9	18.8
50°-60°	2197.7	13.9
60°-70°	1343.5	8.5
70°-80°	765.2	4.8
80°-90°	218.9	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°	5114.3	32.4
0°-40°	8304.9	52.6
0°-60°	13467.4	85.3
0°-90°	15795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6333	6333	6333	6333	6333	
5°	6346	6317	6320	6315	6351	604
15°	6167	6163	6283	6407	6480	1741
25°	5747	5791	6008	6059	6096	2647
35°	5043	5082	5185	5142	5123	3142
45°	3896	3919	3855	3795	3777	3002
55°	2599	2534	2503	2325	2284	2332
65°	1496	1359	1268	1302	1318	1497
75°	768	720	655	746	778	822
85°	201	196	176	183	183	232
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6333.3	6333.3	6333.3	6333.3	6333.3
2.5°	6367.6	6331.7	6325.2	6310.5	6343.1
5°	6346.4	6317.0	6320.3	6315.4	6351.3
7.5°	6321.9	6300.7	6313.7	6312.1	6359.5
10°	6279.4	6268.0	6300.7	6336.6	6413.4
12.5°	6232.1	6220.6	6292.5	6384.0	6467.3
15°	6166.7	6163.4	6282.7	6406.9	6480.4
17.5°	6085.0	6089.9	6271.3	6377.4	6442.8
20°	5995.2	6003.4	6223.9	6310.5	6369.3
22.5°	5879.2	5907.0	6132.4	6204.3	6250.0
25°	5746.9	5791.0	6008.3	6058.9	6096.5
27.5°	5604.8	5648.9	5854.7	5880.8	5902.1
30°	5428.3	5490.4	5665.2	5668.5	5683.2
32.5°	5248.7	5304.2	5438.1	5423.4	5426.7
35°	5042.8	5082.0	5184.9	5142.5	5122.9
37.5°	4806.0	4827.2	4892.5	4828.8	4825.6
40°	4529.9	4557.7	4557.7	4469.4	4485.8
42.5°	4235.8	4245.6	4204.8	4121.5	4134.6
45°	3896.1	3918.9	3855.2	3794.8	3776.8
47.5°	3559.5	3582.4	3515.4	3445.2	3414.2
50°	3242.6	3231.2	3190.4	3071.1	3027.0
52.5°	2914.3	2878.3	2862.0	2687.2	2636.6
55°	2599.0	2533.7	2502.6	2324.6	2283.7
57.5°	2306.6	2189.0	2130.2	1991.3	1975.0
60°	2009.3	1877.0	1805.1	1715.2	1718.5
62.5°	1739.7	1600.9	1514.3	1488.2	1499.6
65°	1496.3	1359.1	1267.6	1302.0	1318.3
67.5°	1275.8	1163.1	1060.2	1140.2	1156.6
70°	1083.1	993.2	890.3	1007.9	1016.1
72.5°	923.0	849.5	762.9	874.0	891.9
75°	767.8	720.4	655.1	746.5	777.6
77.5°	632.2	594.6	557.0	612.6	646.9
80°	501.5	463.9	444.3	473.7	496.6
82.5°	354.5	330.0	310.4	331.6	343.0
85°	200.9	196.0	176.4	183.0	183.0
87.5°	45.7	52.3	58.8	53.9	45.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)