

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-AWG-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 (P23764)
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-AWG-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

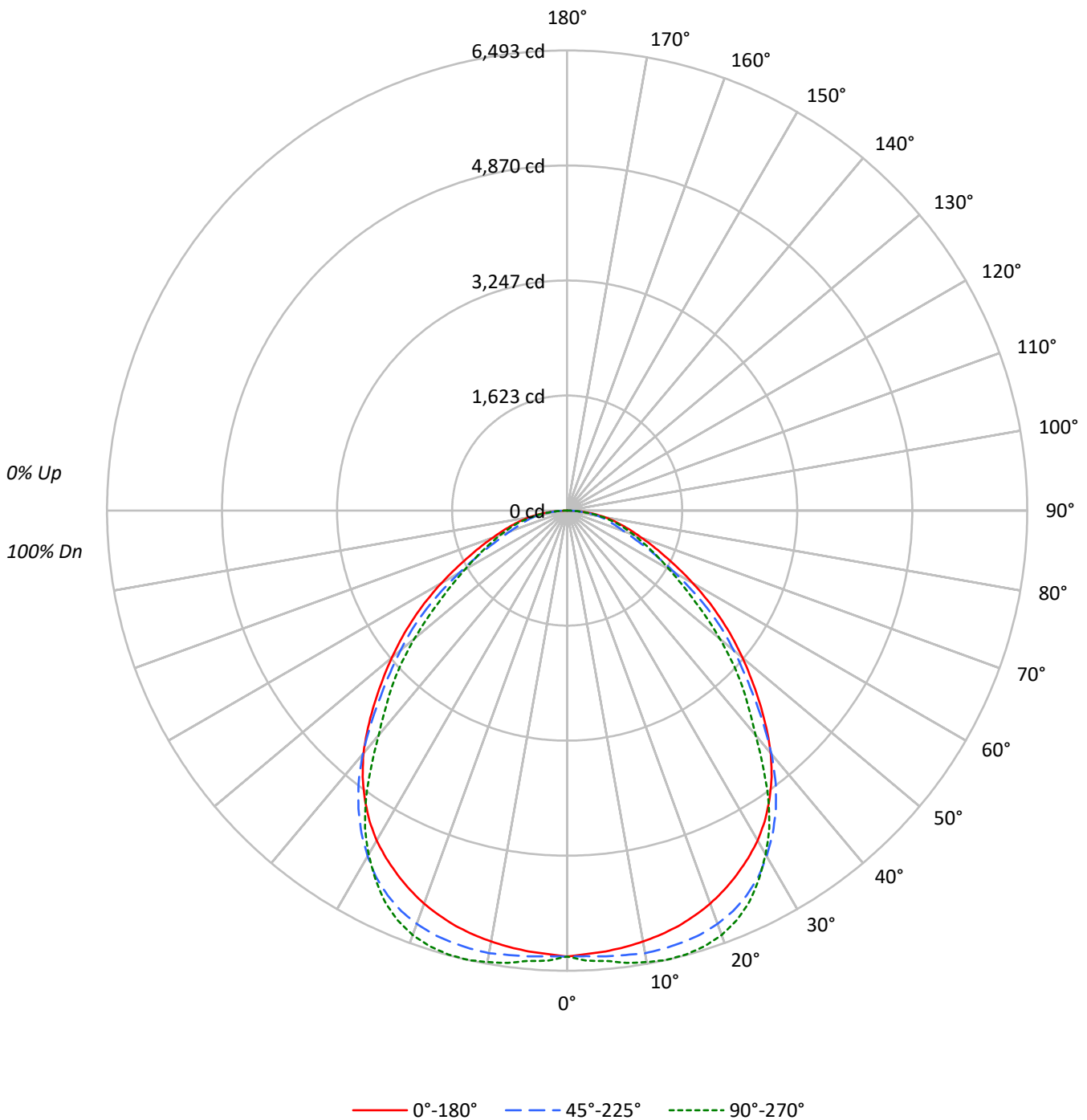
Lumens per Lamp: N/A
Luminaire Lumens: 15598.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-18SE-W-AWG-UNV-L735-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18SE-W-AWG-UNV-L735-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	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8466	8466	8466
5°	8433	8528	8614
10°	8435	8664	8839
15°	8452	8785	9032
20°	8450	8885	9124
25°	8413	8897	9041
30°	8351	8749	8703
35°	8174	8432	8125
40°	7854	7877	7264
45°	7311	7101	6640
50°	6758	6422	5884
55°	6186	5691	5077
60°	5516	4723	4484
65°	4838	3887	4120
70°	4368	3349	3923
75°	4175	3282	3912
80°	4208	3475	3817
85°	3728	3183	3331



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18SE-W-AWG-UNV-L735-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.4	3.9
10°-20°	1781.2	11.4
20°-30°	2732.1	17.5
30°-40°	3142.3	20.1
40°-50°	2866.0	18.4
50°-60°	2148.1	13.8
60°-70°	1321.3	8.5
70°-80°	757.2	4.9
80°-90°	245.2	1.6
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°	5117.8	32.8
0°-40°	8260.1	53.0
0°-60°	13274.3	85.1
0°-90°	15598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15598.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6292	6292	6292	6292	6292	
5°	6244	6307	6314	6366	6378	594
15°	6068	6202	6306	6441	6484	1713
25°	5667	5830	5993	6085	6090	2611
35°	4976	5074	5134	5049	4947	3104
45°	3842	3925	3732	3540	3490	2965
55°	2637	2539	2426	2212	2164	2356
65°	1520	1359	1221	1259	1294	1528
75°	803	720	631	723	752	859
85°	242	228	206	217	216	269
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18SE-W-AWG-UNV-L735-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6292.1	6292.1	6292.1	6292.1	6292.1
2.5°	6262.4	6307.3	6292.9	6329.8	6357.1
5°	6244.0	6307.3	6313.8	6365.9	6377.9
7.5°	6212.7	6295.3	6324.2	6416.5	6437.3
10°	6174.2	6273.7	6341.8	6441.3	6469.4
12.5°	6127.6	6243.2	6329.8	6452.6	6492.7
15°	6067.5	6202.3	6306.5	6441.3	6483.8
17.5°	5991.3	6147.7	6269.6	6402.0	6446.1
20°	5901.4	6066.7	6205.5	6341.0	6372.3
22.5°	5793.1	5959.2	6117.2	6239.2	6256.0
25°	5667.1	5830.0	5992.9	6085.1	6089.9
27.5°	5530.0	5681.6	5834.0	5883.8	5862.1
30°	5375.1	5510.7	5631.0	5641.5	5601.4
32.5°	5191.4	5313.4	5399.2	5376.7	5309.3
35°	4976.4	5073.5	5133.6	5049.4	4946.7
37.5°	4740.5	4813.5	4833.6	4650.7	4533.6
40°	4471.8	4534.4	4484.6	4230.3	4135.6
42.5°	4162.1	4234.3	4106.8	3855.6	3797.9
45°	3842.0	3925.4	3732.1	3539.6	3489.8
47.5°	3528.3	3604.5	3385.5	3230.7	3156.9
50°	3228.3	3261.2	3067.8	2892.9	2811.1
52.5°	2933.1	2900.2	2763.0	2545.6	2473.4
55°	2637.0	2539.1	2426.0	2211.8	2164.5
57.5°	2340.2	2203.8	2080.3	1915.8	1897.3
60°	2049.8	1882.1	1755.3	1657.5	1666.3
62.5°	1773.0	1602.1	1466.5	1435.2	1468.9
65°	1519.5	1359.0	1221.0	1258.7	1294.0
67.5°	1308.5	1154.4	1014.1	1110.3	1138.4
70°	1110.3	986.0	851.2	975.5	997.2
72.5°	952.3	846.4	729.3	850.4	868.8
75°	803.1	719.6	631.4	722.8	752.5
77.5°	673.1	604.1	543.9	597.7	629.8
80°	543.1	484.6	448.5	472.5	492.6
82.5°	397.9	360.2	333.7	344.2	347.4
85°	241.5	227.8	206.2	217.4	215.8
87.5°	79.4	90.7	95.5	85.8	81.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)