Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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-AI-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.

Report Generated By E9911574 / USPTCWHP6081592

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P#
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
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-AI-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:	15821.0 lumens
Efficiency:	N/A
Efficacy:	129.9 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 1.16 / 1.26
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

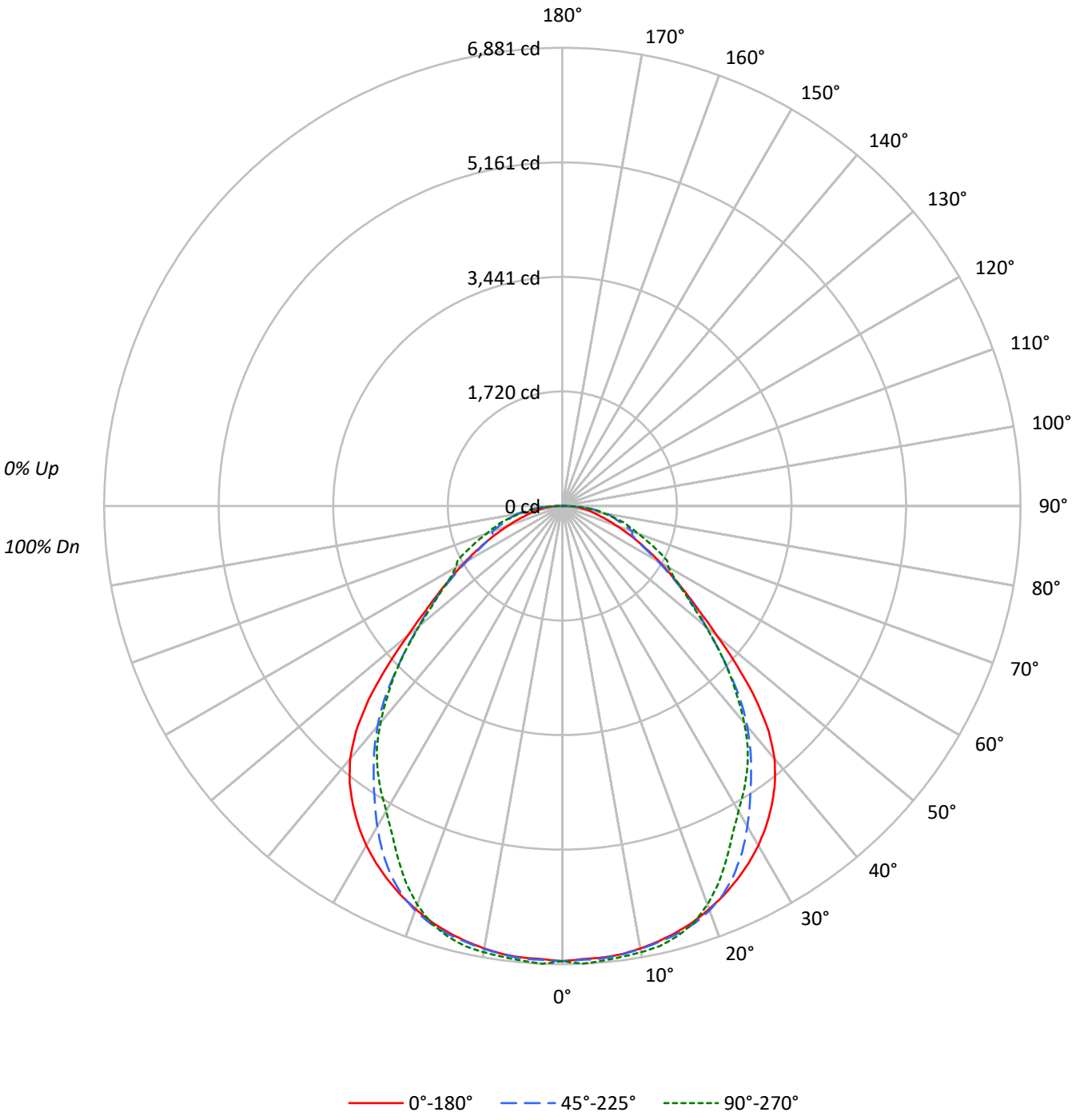
Input Watts (W):	121.76
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

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

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	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	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9197	9197	9197
5°	9196	9216	9261
10°	9219	9231	9298
15°	9233	9268	9313
20°	9224	9258	9121
25°	9201	9063	8668
30°	9146	8635	8214
35°	9009	8116	7947
40°	8707	7588	7463
45°	7826	6776	6751
50°	6348	5902	5862
55°	5271	5173	5171
60°	4563	4430	4953
65°	3955	3930	4992
70°	3410	4409	4759
75°	3058	4519	4961
80°	3178	5319	4978
85°	3608	6130	5687

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.8	4.1
10°-20°	1879.5	11.9
20°-30°	2791.5	17.6
30°-40°	3169.2	20.0
40°-50°	2833.1	17.9
50°-60°	1958.8	12.4
60°-70°	1292.5	8.2
70°-80°	872.0	5.5
80°-90°	373.5	2.4
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°	5321.9	33.6
0°-40°	8491.1	53.7
0°-60°	13283.0	84.0
0°-90°	15821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6835	6835	6835	6835	6835	
5°	6809	6851	6824	6851	6857	648
15°	6628	6660	6653	6690	6686	1871
25°	6197	6256	6104	5923	5839	2856
35°	5484	5369	4941	4869	4838	3420
45°	4113	3765	3561	3588	3548	3128
55°	2247	2051	2205	2174	2204	2041
65°	1242	1103	1234	1444	1568	1240
75°	588	740	869	929	954	642
85°	234	325	397	399	368	244
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6835.2	6835.2	6835.2	6835.2	*6835.2*
2.5°	*6811.9*	*6854.5*	*6822.8*	*6852.2*	*6880.8*
5°	6808.8	6850.6	6823.6	6851.4	*6856.8*
7.5°	6789.5	6828.2	6796.5	6823.6	*6829.7*
10°	6747.7	6793.4	6756.2	6798.0	*6805.7*
12.5°	6693.5	6740.0	6707.5	6764.7	*6767.8*
15°	6628.5	6660.2	6653.3	6690.4	*6685.8*
17.5°	6546.5	6582.8	6577.4	6586.7	*6565.0*
20°	6442.0	6483.0	6466.0	6423.4	*6370.0*
22.5°	6329.7	6379.3	6311.9	6204.4	*6129.3*
25°	6197.4	6256.2	6104.5	5922.6	*5839.0*
27.5°	6051.1	6103.7	5851.4	5628.5	*5541.8*
30°	5887.0	5909.5	5558.1	5346.0	*5287.2*
32.5°	5697.4	5664.9	5244.6	5104.5	*5070.4*
35°	5484.5	5369.2	4941.2	4869.2	*4838.3*
37.5°	5244.6	5033.3	4641.7	4608.4	*4575.9*
40°	4957.4	4645.5	4320.4	4298.8	*4249.2*
42.5°	4586.7	4223.7	3963.6	3938.1	*3894.0*
45°	4113.0	3764.7	3561.2	3588.2	*3548.0*
47.5°	3568.1	3304.2	3174.9	3249.2	*3174.9*
50°	3032.5	2855.3	2819.7	2887.0	*2800.3*
52.5°	2593.7	2434.2	2507.7	2519.4	*2467.5*
55°	2246.9	2051.1	2205.1	2174.2	*2204.3*
57.5°	1945.1	1726.0	1915.6	1880.0	*1983.8*
60°	1695.8	1449.7	1646.3	1638.6	*1840.6*
62.5°	1451.2	1254.6	1412.5	1526.3	*1774.8*
65°	1242.3	1102.9	1234.5	1443.5	*1568.1*
67.5°	1041.8	989.2	1129.3	1245.4	*1381.6*
70°	866.9	894.0	1120.7	1099.1	*1209.8*
72.5°	719.8	811.9	989.2	993.0	*1071.2*
75°	588.2	739.9	869.2	928.8	*954.3*
77.5°	489.2	671.1	784.8	805.7	*781.0*
80°	410.2	591.3	686.5	677.2	*642.4*
82.5°	331.3	448.1	541.0	549.5	*508.5*
85°	233.7	325.1	397.1	399.4	*368.4*
87.5°	125.4	200.5	240.7	247.7	*229.1*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)