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-L750-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-L750-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:	17285.0 lumens
Efficiency:	N/A
Efficacy:	142.0 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

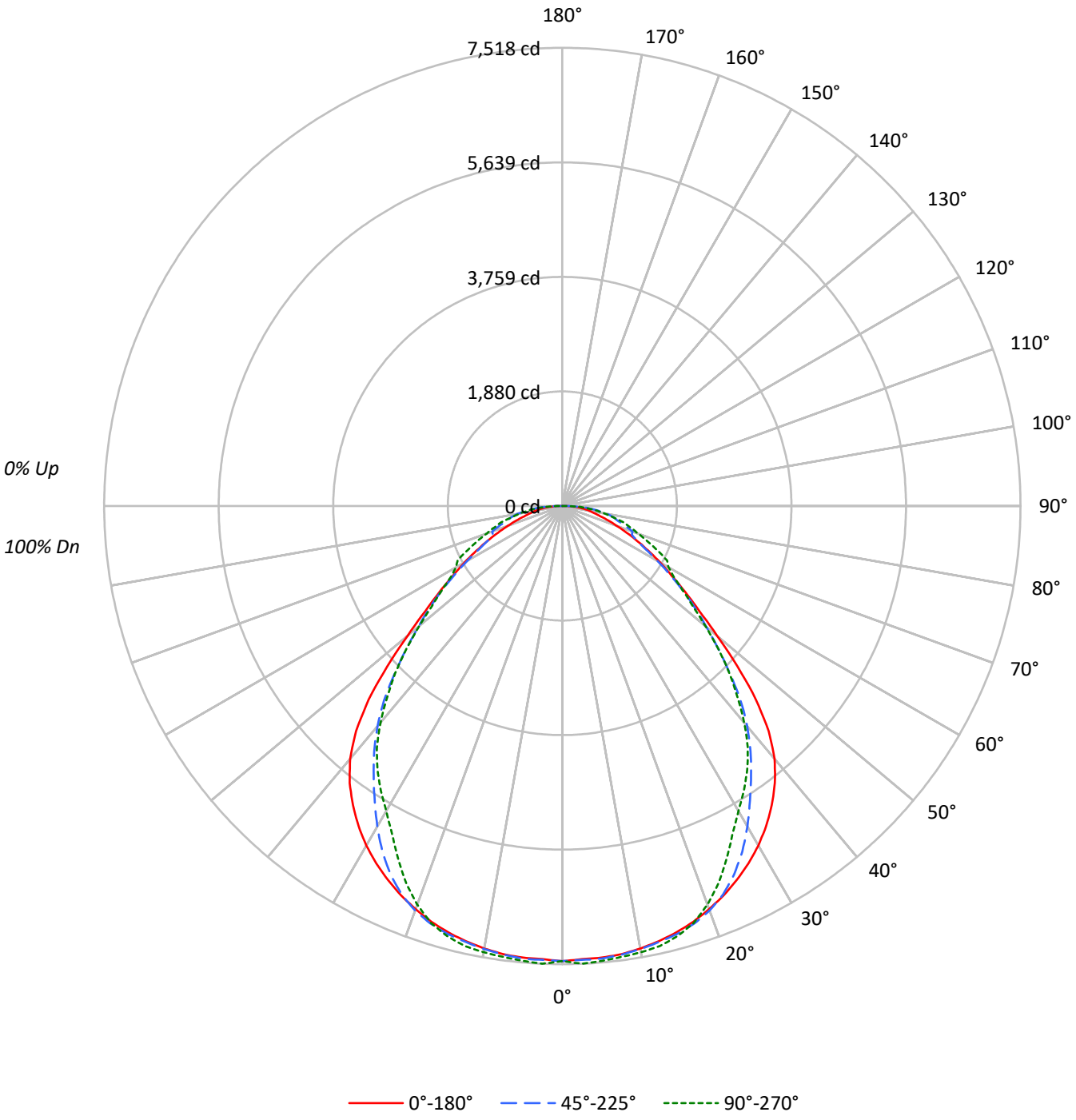
Input Watts (W):	121.76
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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-L750-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-L750-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°	10048	10048	10048
5°	10047	10069	10118
10°	10072	10085	10159
15°	10088	10125	10175
20°	10077	10115	9965
25°	10052	9901	9471
30°	9993	9434	8974
35°	9842	8867	8682
40°	9513	8291	8154
45°	8550	7403	7376
50°	6935	6448	6404
55°	5758	5651	5649
60°	4986	4840	5411
65°	4321	4294	5454
70°	3726	4817	5199
75°	3341	4937	5420
80°	3473	5812	5439
85°	3943	6697	6214

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-L750-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	711.0	4.1
10°-20°	2053.5	11.9
20°-30°	3049.8	17.6
30°-40°	3462.4	20.0
40°-50°	3095.3	17.9
50°-60°	2140.1	12.4
60°-70°	1412.2	8.2
70°-80°	952.7	5.5
80°-90°	408.0	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°	5814.3	33.6
0°-40°	9276.8	53.7
0°-60°	14512.1	84.0
0°-90°	17285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17285.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7468	7468	7468	7468	7468	
5°	7439	7485	7455	7485	7491	708
15°	7242	7276	7269	7310	7304	2044
25°	6771	6835	6669	6471	6379	3120
35°	5992	5866	5398	5320	5286	3737
45°	4494	4113	3891	3920	3876	3417
55°	2455	2241	2409	2375	2408	2230
65°	1357	1205	1349	1577	1713	1354
75°	643	808	950	1015	1043	702
85°	255	355	434	436	402	266
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-L750-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7467.7	7467.7	7467.7	7467.7	*7467.7*
2.5°	*7442.3*	*7488.8*	*7454.1*	*7486.3*	*7517.5*
5°	7438.9	7484.6	7455.0	7485.4	*7491.3*
7.5°	7417.8	7460.0	7425.4	7455.0	*7461.7*
10°	7372.1	7422.0	7381.4	7427.1	*7435.5*
12.5°	7312.9	7363.6	7328.1	7390.7	*7394.1*
15°	7241.9	7276.5	7268.9	7309.5	*7304.5*
17.5°	7152.2	7192.0	7186.1	7196.2	*7172.5*
20°	7038.1	7082.9	7064.3	7017.8	*6959.4*
22.5°	6915.5	6969.6	6896.0	6778.5	*6696.5*
25°	6770.9	6835.1	6669.4	6470.7	*6379.3*
27.5°	6611.0	6668.5	6392.9	6149.3	*6054.6*
30°	6431.8	6456.3	6072.4	5840.7	*5776.4*
32.5°	6224.6	6189.1	5729.9	5576.9	*5539.6*
35°	5992.1	5866.1	5398.4	5319.8	*5286.0*
37.5°	5729.9	5499.1	5071.2	5034.8	*4999.3*
40°	5416.2	5075.4	4720.2	4696.6	*4642.4*
42.5°	5011.1	4614.5	4330.4	4302.5	*4254.3*
45°	4493.6	4113.1	3890.7	3920.3	*3876.3*
47.5°	3898.3	3609.9	3468.7	3549.9	*3468.7*
50°	3313.1	3119.5	3080.6	3154.2	*3059.4*
52.5°	2833.7	2659.5	2739.8	2752.5	*2695.8*
55°	2454.8	2240.9	2409.2	2375.3	*2408.3*
57.5°	2125.0	1885.7	2092.9	2054.0	*2167.3*
60°	1852.7	1583.8	1798.6	1790.2	*2010.9*
62.5°	1585.5	1370.7	1543.3	1667.6	*1939.0*
65°	1357.2	1205.0	1348.8	1577.1	*1713.2*
67.5°	1138.2	1080.7	1233.8	1360.6	*1509.4*
70°	947.1	976.7	1224.5	1200.8	*1321.7*
72.5°	786.4	887.1	1080.7	1084.9	*1170.3*
75°	642.7	808.4	949.6	1014.7	*1042.6*
77.5°	534.4	733.2	857.5	880.3	*853.2*
80°	448.2	646.1	750.1	739.9	*701.9*
82.5°	361.9	489.6	591.1	600.4	*555.6*
85°	255.4	355.2	433.8	436.3	*402.5*
87.5°	137.0	219.0	263.0	270.6	*250.3*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)