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-AWG-UNV-L740-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 (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-L740-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:	15778.0 lumens
Efficiency:	N/A
Efficacy:	129.6 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

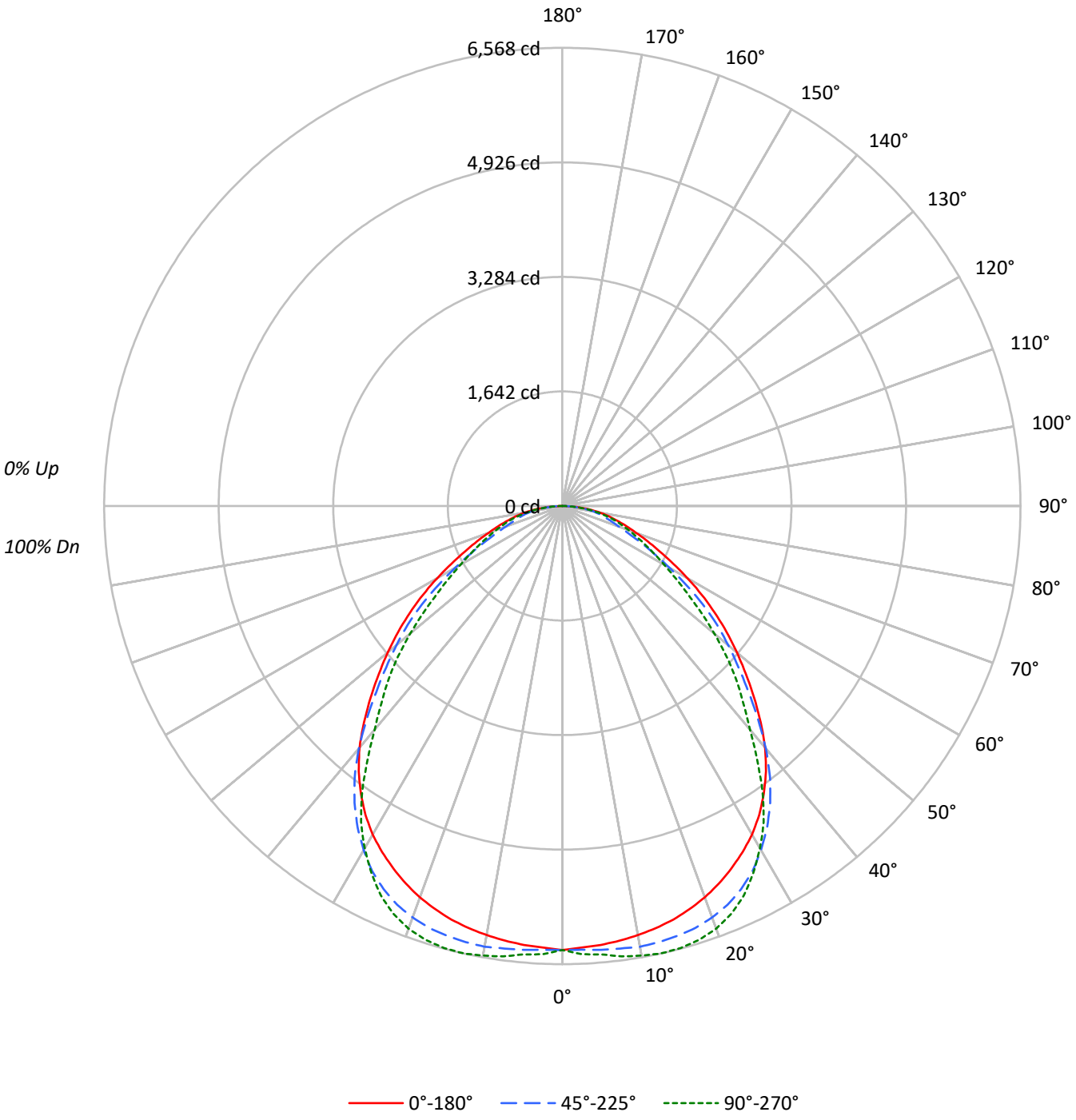
Input Watts (W):	121.76
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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-AWG-UNV-L740-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-AWG-UNV-L740-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	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°	8564	8564	8564
5°	8531	8626	8714
10°	8533	8764	8941
15°	8549	8886	9136
20°	8547	8988	9229
25°	8510	9000	9145
30°	8447	8850	8803
35°	8268	8530	8219
40°	7945	7968	7348
45°	7395	7183	6717
50°	6835	6496	5952
55°	6257	5757	5136
60°	5579	4778	4536
65°	4893	3932	4167
70°	4418	3387	3968
75°	4223	3320	3957
80°	4257	3515	3861
85°	3771	3220	3370

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-AWG-UNV-L740-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.4	3.9
10°-20°	1801.8	11.4
20°-30°	2763.7	17.5
30°-40°	3178.6	20.1
40°-50°	2899.1	18.4
50°-60°	2172.9	13.8
60°-70°	1336.6	8.5
70°-80°	766.0	4.9
80°-90°	248.0	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°	5176.8	32.8
0°-40°	8355.4	53.0
0°-60°	13427.4	85.1
0°-90°	15778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6365	6365	6365	6365	6365	
5°	6316	6380	6387	6439	6452	601
15°	6138	6274	6379	6516	6559	1733
25°	5732	5897	6062	6155	6160	2641
35°	5034	5132	5193	5108	5004	3139
45°	3886	3971	3775	3580	3530	2999
55°	2668	2568	2454	2237	2190	2383
65°	1537	1375	1235	1273	1309	1546
75°	812	728	639	731	761	869
85°	244	230	209	220	218	272
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-AWG-UNV-L740-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6364.7	6364.7	6364.7	6364.7	*6364.7*
2.5°	6334.7	6380.1	6365.5	6402.9	*6430.4*
5°	6316.0	6380.1	6386.6	6439.4	*6451.5*
7.5°	6284.4	6368.0	6397.2	6490.5	*6511.6*
10°	6245.4	6346.1	6415.0	6515.7	*6544.1*
12.5°	*6198.4*	*6315.2*	*6402.9*	*6527.0*	*6567.6*
15°	6137.5	6273.8	6379.3	6515.7	*6558.7*
17.5°	6060.4	6218.6	6342.0	6475.9	*6520.5*
20°	5969.5	6136.7	6277.1	6414.2	*6445.9*
22.5°	5860.0	6027.9	6187.8	6311.2	*6328.2*
25°	5732.5	5897.3	6062.0	6155.3	*6160.2*
27.5°	5593.8	5747.2	5901.3	5951.7	*5929.7*
30°	5437.2	5574.3	5696.0	5706.6	*5666.0*
32.5°	5251.3	5374.7	5461.5	5438.8	*5370.6*
35°	5033.8	5132.0	5192.9	5107.7	*5003.8*
37.5°	4795.2	4869.1	4889.4	4704.4	*4585.9*
40°	4523.4	4586.7	4536.4	4279.1	*4183.4*
42.5°	4210.1	4283.2	4154.1	3900.1	*3841.7*
45°	3886.3	3970.7	3775.2	3580.4	*3530.1*
47.5°	3569.0	3646.1	3424.6	3268.0	*3193.3*
50°	3265.5	3298.8	3103.2	2926.3	*2843.6*
52.5°	2966.9	2933.6	2794.9	2574.9	*2501.9*
55°	2667.5	2568.4	2454.0	2237.3	*2189.5*
57.5°	2367.2	2229.2	2104.3	1937.9	*1919.2*
60°	2073.4	1903.8	1775.6	1676.6	*1685.5*
62.5°	1793.4	1620.6	1483.5	1451.8	*1485.9*
65°	1537.0	1374.7	1235.1	1273.3	*1309.0*
67.5°	1323.6	1167.8	1025.8	1123.1	*1151.5*
70°	1123.1	997.4	861.0	986.8	*1008.7*
72.5°	963.3	856.1	737.7	860.2	*878.9*
75°	812.3	727.9	638.7	731.2	*761.2*
77.5°	680.9	611.1	550.2	604.6	*637.0*
80°	549.4	490.2	453.6	478.0	*498.3*
82.5°	402.5	364.4	337.6	348.1	*351.4*
85°	244.3	230.5	208.6	219.9	*218.3*
87.5°	80.3	91.7	96.6	86.8	*82.0*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)