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-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

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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-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:	17040.0 lumens
Efficiency:	N/A
Efficacy:	139.9 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

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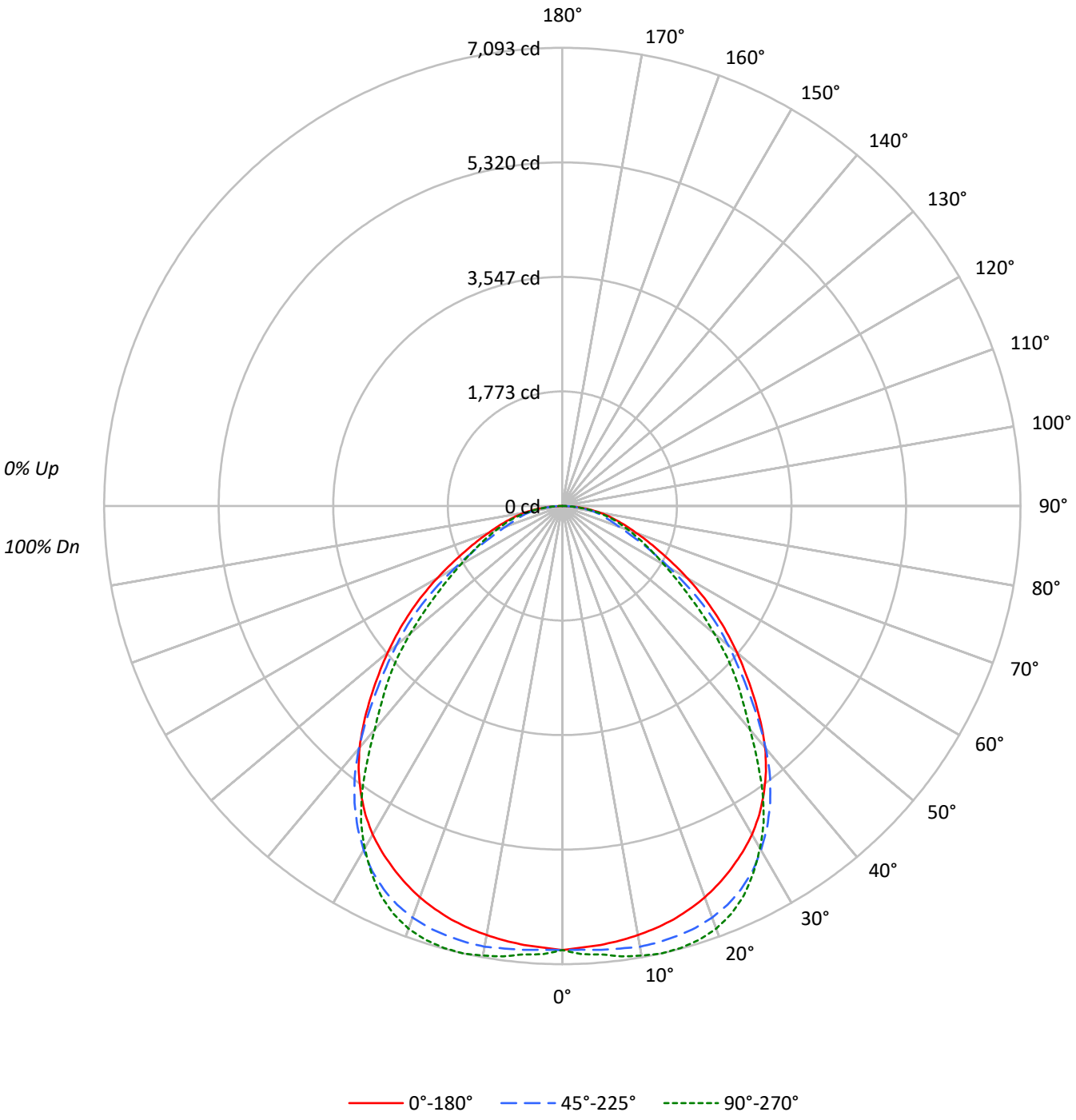
Luminous Intensity Polar Plot



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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°	9249	9249	9249
5°	9213	9316	9411
10°	9215	9465	9656
15°	9233	9597	9867
20°	9231	9707	9968
25°	9191	9719	9877
30°	9123	9557	9507
35°	8930	9212	8876
40°	8580	8605	7935
45°	7986	7758	7254
50°	7382	7015	6428
55°	6758	6217	5547
60°	6026	5160	4898
65°	5285	4247	4501
70°	4772	3658	4286
75°	4561	3585	4274
80°	4597	3796	4169
85°	4072	3477	3640

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.3	3.9
10°-20°	1945.9	11.4
20°-30°	2984.7	17.5
30°-40°	3432.9	20.1
40°-50°	3131.0	18.4
50°-60°	2346.7	13.8
60°-70°	1443.5	8.5
70°-80°	827.2	4.9
80°-90°	267.8	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°	5590.9	32.8
0°-40°	9023.7	53.0
0°-60°	14501.5	85.1
0°-90°	17040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6874	6874	6874	6874	6874	
5°	6821	6890	6898	6954	6968	649
15°	6628	6776	6890	7037	7083	1871
25°	6191	6369	6547	6648	6653	2853
35°	5436	5542	5608	5516	5404	3390
45°	4197	4288	4077	3867	3812	3239
55°	2881	2774	2650	2416	2365	2574
65°	1660	1485	1334	1375	1414	1669
75°	877	786	690	790	822	938
85°	264	249	225	238	236	294
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6873.8	6873.8	6873.8	6873.8	*6873.8*
2.5°	6841.4	6890.4	6874.7	6915.0	*6944.8*
5°	6821.2	6890.4	6897.5	6954.4	*6967.6*
7.5°	6787.0	6877.3	6908.9	7009.6	*7032.4*
10°	6745.0	6853.6	6928.1	7036.8	*7067.5*
12.5°	*6694.1*	*6820.3*	*6915.0*	*7049.1*	*7092.9*
15°	6628.4	6775.6	6889.6	7036.8	*7083.3*
17.5°	6545.1	6716.0	6849.3	6993.9	*7042.1*
20°	6447.0	6627.5	6779.1	6927.3	*6961.4*
22.5°	6328.7	6510.1	6682.7	6816.0	*6834.4*
25°	6191.1	6369.0	6546.9	6647.7	*6652.9*
27.5°	6041.2	6206.8	6373.4	6427.7	*6404.0*
30°	5872.0	6020.2	6151.6	6163.0	*6119.2*
32.5°	5671.3	5804.6	5898.3	5873.8	*5800.2*
35°	5436.5	5542.5	5608.2	5516.2	*5404.0*
37.5°	5178.8	5258.5	5280.5	5080.6	*4952.7*
40°	4885.2	4953.6	4899.2	4621.4	*4518.0*
42.5°	4546.9	4625.8	4486.4	4212.1	*4149.0*
45°	4197.2	4288.3	4077.1	3866.8	*3812.4*
47.5°	3854.5	3937.8	3698.5	3529.4	*3448.7*
50°	3526.7	3562.7	3351.4	3160.4	*3071.0*
52.5°	3204.2	3168.3	3018.4	2780.9	*2702.0*
55°	2880.8	2773.9	2650.3	2416.3	*2364.6*
57.5°	2556.5	2407.5	2272.6	2092.9	*2072.7*
60°	2239.3	2056.1	1917.6	1810.7	*1820.3*
62.5°	1936.9	1750.2	1602.1	1567.9	*1604.7*
65°	1659.9	1484.7	1333.9	1375.1	*1413.7*
67.5°	1429.4	1261.2	1107.8	1213.0	*1243.6*
70°	1213.0	1077.1	929.9	1065.7	*1089.4*
72.5°	1040.3	924.6	796.7	929.0	*949.2*
75°	877.3	786.2	689.7	789.7	*822.1*
77.5°	735.3	659.9	594.2	652.9	*688.0*
80°	593.3	529.4	489.9	516.2	*538.1*
82.5°	434.7	393.5	364.6	376.0	*379.5*
85°	263.8	248.9	225.2	237.5	*235.8*
87.5°	86.8	99.0	104.3	93.8	*88.5*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)