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-LD5-15SE-W-UNV-L835-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 (P23760)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-15SE-W-UNV-L835-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:	14457.0 lumens
Efficiency:	N/A
Efficacy:	151.9 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.29 / 1.42
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

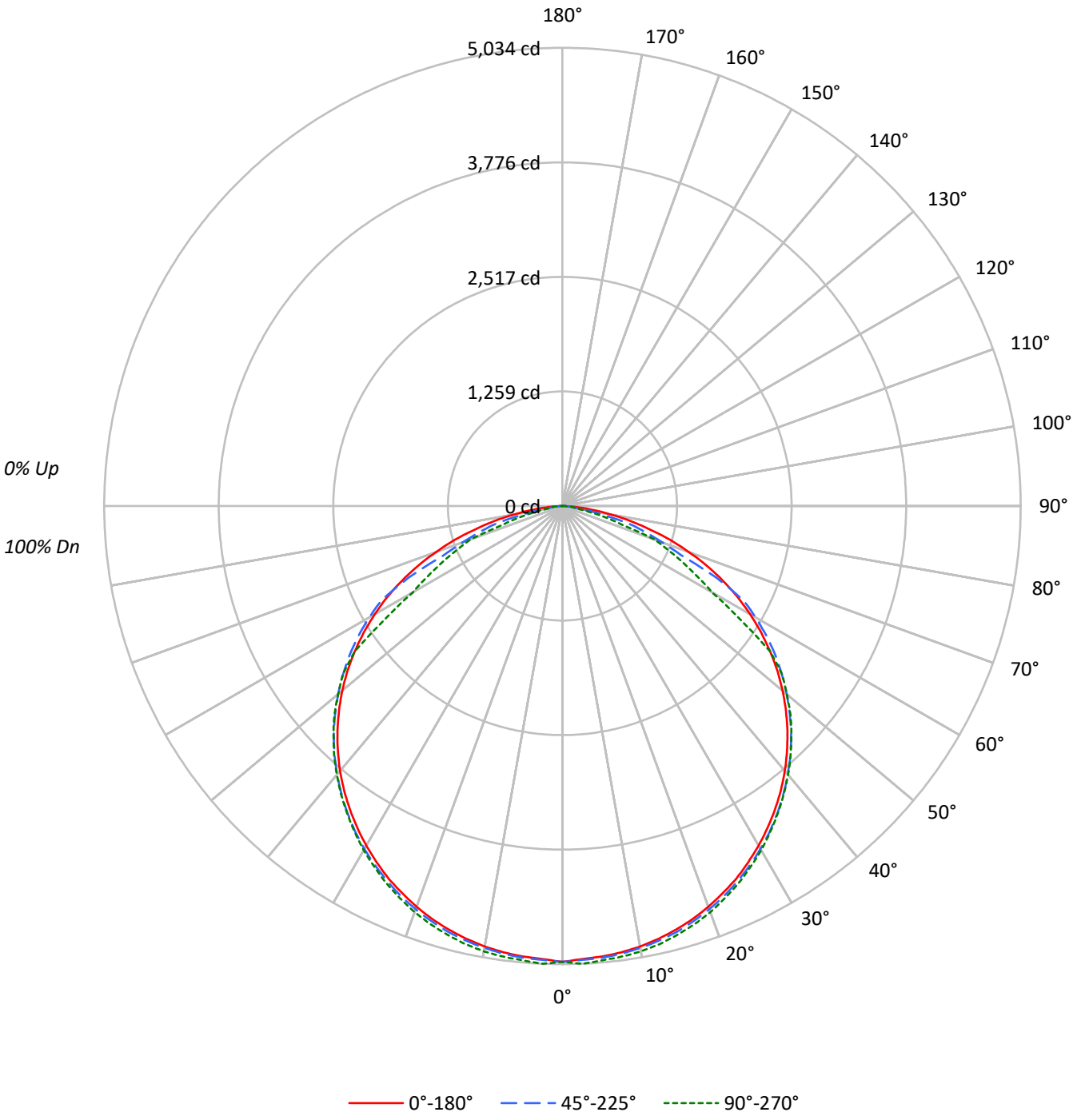
Input Watts (W):	95.2
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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

Scaled Data Report

TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-15SE-W-UNV-L835-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-LD5-15SE-W-UNV-L835-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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6738	6738	6738
5°	6710	6729	6767
10°	6714	6738	6788
15°	6712	6748	6795
20°	6709	6752	6799
25°	6706	6754	6792
30°	6694	6760	6785
35°	6686	6763	6772
40°	6674	6763	6773
45°	6649	6760	6768
50°	6609	6731	6730
55°	6532	6695	6529
60°	6411	6597	5109
65°	6197	5937	4603
70°	5805	4568	4242
75°	5140	3983	2643
80°	4233	2345	1182
85°	2790	1437	1548

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

Scaled Data Report

TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-15SE-W-UNV-L835-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.2	3.3
10°-20°	1371.0	9.5
20°-30°	2102.0	14.5
30°-40°	2577.8	17.8
40°-50°	2737.2	18.9
50°-60°	2500.1	17.3
60°-70°	1741.1	12.0
70°-80°	812.0	5.6
80°-90°	140.5	1.0
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°	3948.2	27.3
0°-40°	6526.0	45.1
0°-60°	11763.4	81.4
0°-90°	14457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5008	5008	5008	5008	5008	
5°	4968	5003	4982	5006	5010	473
15°	4819	4852	4844	4874	4878	1361
25°	4517	4557	4550	4583	4575	2082
35°	4071	4117	4117	4145	4123	2547
45°	3494	3547	3552	3575	3557	2695
55°	2785	2840	2854	2859	2783	2487
65°	1946	2006	1865	1483	1446	1921
75°	989	1051	766	531	508	1057
85°	181	119	93	100	100	233
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-LD5-15SE-W-UNV-L835-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5007.8	5007.8	5007.8	5007.8	*5007.8*
2.5°	*4981.4*	*5013.2*	*4992.2*	*5015.0*	*5034.2*
5°	4968.1	5003.0	4982.0	5006.0	*5010.2*
7.5°	4946.5	4979.6	4960.3	4986.8	*4993.4*
10°	4914.1	4946.5	4931.5	4962.7	*4968.7*
12.5°	4870.3	4903.3	4891.9	4926.1	*4930.3*
15°	4818.7	4852.3	4844.5	4873.9	*4878.1*
17.5°	4758.0	4792.8	4783.8	4815.1	*4818.1*
20°	4685.4	4723.2	4715.4	4752.0	*4748.4*
22.5°	4603.7	4643.9	4637.9	4674.6	*4663.8*
25°	4517.3	4556.9	4549.7	4583.3	*4574.9*
27.5°	4415.8	4459.6	4453.0	4485.4	*4472.2*
30°	4308.9	4353.4	4351.0	4380.4	*4367.2*
32.5°	4193.7	4241.1	4238.7	4267.5	*4247.1*
35°	4070.6	4117.4	4117.4	4145.0	*4122.8*
37.5°	3940.3	3987.7	3988.3	4014.7	*3993.7*
40°	3799.8	3847.2	3850.2	3875.5	*3856.2*
42.5°	3652.1	3703.7	3706.1	3729.0	*3711.0*
45°	3494.2	3547.0	3552.5	3575.3	*3556.7*
47.5°	3329.1	3382.5	3387.3	3412.0	*3398.8*
50°	3157.4	3209.0	3215.6	3236.1	*3215.0*
52.5°	2976.1	3028.9	3037.9	3050.5	*3040.9*
55°	2784.6	2840.4	2854.2	2859.0	*2783.4*
57.5°	2586.4	2643.5	2656.7	2546.2	*2303.1*
60°	2382.3	2438.7	2451.4	2071.3	*1898.4*
62.5°	2169.8	2225.0	2238.8	1716.5	*1661.3*
65°	1946.4	2006.5	1864.8	1482.9	*1445.7*
67.5°	1717.1	1778.9	1410.3	1271.0	*1248.8*
70°	1475.7	1538.2	1161.1	1083.7	*1078.3*
72.5°	1244.0	1290.2	952.8	821.3	*691.6*
75°	988.8	1051.3	766.1	530.7	*508.5*
77.5°	766.7	662.8	462.3	389.0	*306.8*
80°	546.3	443.1	302.6	161.5	*152.5*
82.5°	346.4	289.4	118.9	121.9	*127.3*
85°	180.7	118.9	93.1	99.7	*100.3*
87.5°	58.2	51.0	55.8	55.2	*54.6*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)