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-LD5-12SE-W-UNV-L850-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-LD5-12SE-W-UNV-L850-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:	12206.0 lumens
Efficiency:	N/A
Efficacy:	159.3 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

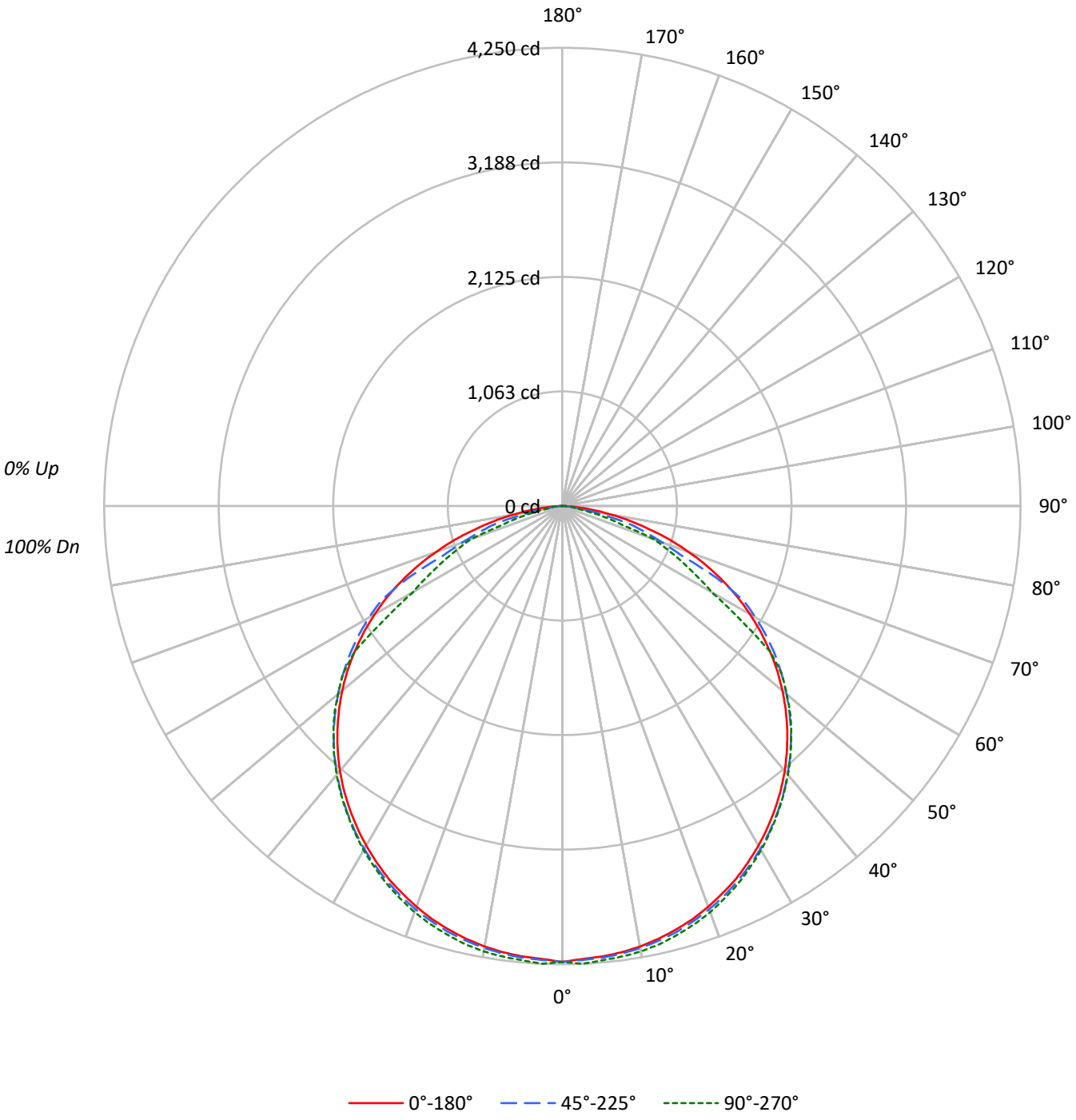
Input Watts (W):	76.6
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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

Scaled Data Report

TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-12SE-W-UNV-L850-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-LD5-12SE-W-UNV-L850-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°	5689	5689	5689
5°	5665	5681	5713
10°	5669	5689	5732
15°	5667	5697	5737
20°	5664	5700	5740
25°	5662	5703	5734
30°	5652	5707	5729
35°	5645	5710	5718
40°	5635	5710	5719
45°	5614	5707	5714
50°	5580	5683	5682
55°	5515	5653	5513
60°	5413	5570	4313
65°	5232	5012	3886
70°	4902	3856	3581
75°	4340	3362	2232
80°	3574	1980	998
85°	2356	1213	1308

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

Scaled Data Report

TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-12SE-W-UNV-L850-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.2	3.3
10°-20°	1157.6	9.5
20°-30°	1774.7	14.5
30°-40°	2176.4	17.8
40°-50°	2311.0	18.9
50°-60°	2110.9	17.3
60°-70°	1470.0	12.0
70°-80°	685.6	5.6
80°-90°	118.6	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°	3333.5	27.3
0°-40°	5509.9	45.1
0°-60°	9931.8	81.4
0°-90°	12206.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12206.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4228	4228	4228	4228	4228	
5°	4195	4224	4206	4226	4230	399
15°	4068	4097	4090	4115	4119	1149
25°	3814	3847	3841	3870	3863	1758
35°	3437	3476	3476	3500	3481	2151
45°	2950	2995	2999	3019	3003	2275
55°	2351	2398	2410	2414	2350	2100
65°	1643	1694	1574	1252	1221	1622
75°	835	888	647	448	429	892
85°	153	100	79	84	85	197
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-LD5-12SE-W-UNV-L850-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4228.0	4228.0	4228.0	4228.0	*4228.0*
2.5°	*4205.7*	*4232.6*	*4214.9*	*4234.1*	*4250.4*
5°	4194.6	4224.0	4206.3	4226.5	*4230.1*
7.5°	4176.3	4204.2	4188.0	4210.3	*4215.9*
10°	4149.0	4176.3	4163.7	4190.0	*4195.1*
12.5°	4112.0	4139.8	4130.2	4159.1	*4162.7*
15°	4068.4	4096.8	4090.2	4115.0	*4118.6*
17.5°	4017.2	4046.6	4039.0	4065.3	*4067.9*
20°	3955.8	3987.8	3981.2	4012.1	*4009.1*
22.5°	3886.9	3920.9	3915.8	3946.7	*3937.6*
25°	3813.9	3847.4	3841.3	3869.7	*3862.6*
27.5°	3728.2	3765.2	3759.7	3787.0	*3775.9*
30°	3638.0	3675.5	3673.5	3698.3	*3687.2*
32.5°	3540.7	3580.7	3578.7	3603.0	*3585.8*
35°	3436.8	3476.3	3476.3	3499.6	*3480.9*
37.5°	3326.8	3366.8	3367.3	3389.6	*3371.9*
40°	3208.2	3248.2	3250.7	3272.0	*3255.8*
42.5°	3083.5	3127.1	3129.1	3148.4	*3133.1*
45°	2950.2	2994.8	2999.3	3018.6	*3002.9*
47.5°	2810.8	2855.9	2859.9	2880.7	*2869.6*
50°	2665.8	2709.4	2715.0	2732.2	*2714.4*
52.5°	2512.7	2557.3	2564.9	2575.6	*2567.4*
55°	2351.0	2398.1	2409.8	2413.9	*2350.0*
57.5°	2183.7	2231.9	2243.0	2149.8	*1944.5*
60°	2011.4	2059.0	2069.7	1748.8	*1602.8*
62.5°	1831.9	1878.6	1890.2	1449.2	*1402.6*
65°	1643.4	1694.1	1574.4	1252.0	*1220.6*
67.5°	1449.7	1501.9	1190.7	1073.1	*1054.4*
70°	1246.0	1298.7	980.3	915.0	*910.4*
72.5°	1050.3	1089.3	804.4	693.4	*583.9*
75°	834.9	887.6	646.8	448.1	*429.3*
77.5°	647.3	559.6	390.3	328.5	*259.0*
80°	461.3	374.1	255.5	136.4	*128.8*
82.5°	292.5	244.3	100.4	102.9	*107.5*
85°	152.6	100.4	78.6	84.1	*84.7*
87.5°	49.2	43.1	47.1	46.6	*46.1*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)