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-LD5-60SE-W-WG-UNV-L735-ED4-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 (P33336)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-60SE-W-WG-UNV-L735-ED4-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:	54071.0 lumens
Efficiency:	N/A
Efficacy:	140.1 lumens/watt
Spacing Criteria (0/90/45):	1.29 / 1.31 / 1.41
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	386
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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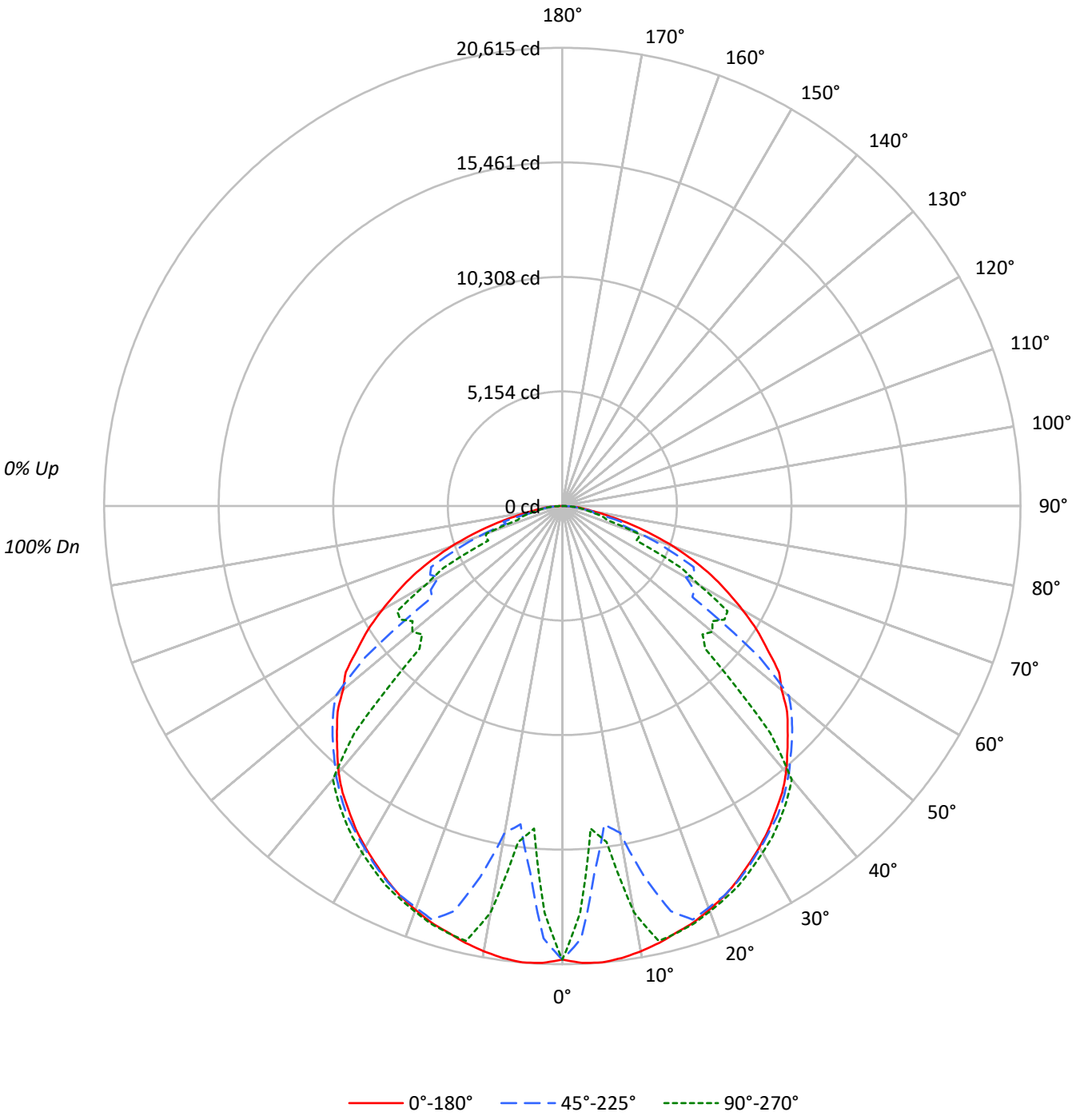
Luminous Intensity Polar Plot



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27461	27461	27461
5°	27843	22368	19672
10°	27795	20400	25371
15°	27672	26292	27696
20°	27672	27547	27791
25°	27623	27685	27938
30°	27543	27634	27990
35°	27499	27804	28129
40°	27503	27803	28201
45°	27287	27821	17289
50°	26978	27877	18426
55°	26409	16763	20885
60°	25192	17279	19124
65°	23605	20746	11701
70°	20844	15717	14344
75°	16607	14286	9947
80°	11440	10325	8547
85°	10964	9533	9042

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1632.1	3.0
10°-20°	5113.1	9.5
20°-30°	8412.1	15.6
30°-40°	10577.2	19.6
40°-50°	10373.6	19.2
50°-60°	8595.0	15.9
60°-70°	6062.2	11.2
70°-80°	2644.9	4.9
80°-90°	660.8	1.2
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°	15157.3	28.0
0°-40°	25734.5	47.6
0°-60°	44703.1	82.7
0°-90°	54071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	54071.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20410	20410	20410	20410	20410	
5°	20615	19187	16561	15016	14565	###
15°	19866	13796	18875	19944	19883	5618
25°	18606	17025	18648	18772	18819	8576
35°	16742	16732	16927	17040	17125	10489
45°	14340	14384	14621	12949	9086	11069
55°	11258	11627	7146	8124	8903	10073
65°	7414	7851	6516	5013	3675	7290
75°	3195	3131	2748	1796	1913	3426
85°	710	632	618	591	586	737
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*20410.0*	20410.0	20410.0	20410.0	20410.0
2.5°	*20578.4*	20151.3	19472.9	18618.7	18316.1
5°	*20615.0*	*19187.3*	*16561.3*	*15016.5*	*14565.0*
7.5°	*20510.1*	17437.5	14438.1	14762.7	15241.0
10°	*20344.2*	15900.0	14931.1	17566.8	18569.9
12.5°	*20131.8*	14533.3	17105.6	19843.8	20044.0
15°	*19865.8*	13796.2	18875.0	19943.9	19882.9
17.5°	*19641.3*	14228.2	19509.5	19743.8	19699.9
20°	*19326.5*	15089.7	19238.6	19426.5	19409.4
22.5°	*19009.2*	16109.9	18982.3	19116.6	19116.6
25°	*18606.5*	17025.0	18648.0	18772.5	18818.8
27.5°	*18164.8*	17552.2	18230.7	18333.2	18416.1
30°	*17727.9*	17627.9	17786.5	17918.3	18015.9
32.5°	*17266.7*	17227.6	17352.1	17491.2	17615.7
35°	*16741.9*	16732.2	16927.4	17039.7	17125.1
37.5°	*16249.0*	16214.8	16395.4	16551.6	16617.5
40°	*15658.4*	15658.4	15829.2	15987.8	16056.2
42.5°	*14984.8*	15080.0	15211.7	15375.3	13847.5
45°	*14340.5*	14384.4	14621.1	12949.4	9086.0
47.5°	*13720.6*	13776.7	14001.2	8324.6	8551.6
50°	*12888.4*	13142.2	13317.9	8300.2	8802.9
52.5°	*12280.7*	12390.5	11180.0	8217.2	8500.3
55°	*11258.1*	11626.6	7145.8	8124.5	8903.0
57.5°	*10384.4*	10652.9	7026.2	8324.6	8807.8
60°	*9361.8*	9771.8	6421.0	8031.7	7106.8
62.5°	*8380.7*	8771.2	6704.1	6320.9	6018.3
65°	*7414.3*	7851.1	6516.2	5012.8	3675.4
67.5°	*6355.1*	5947.5	5198.3	3531.4	3716.9
70°	*5298.4*	4153.8	3995.1	3948.8	3646.1
72.5°	*4212.3*	3031.1	2652.8	2962.8	2120.8
75°	*3194.6*	3131.2	2748.0	1796.2	1913.4
77.5°	*2216.0*	2259.9	1471.6	1752.3	1454.5
80°	*1476.5*	1278.8	1332.5	1117.8	1103.1
82.5°	*1022.6*	1044.5	876.1	849.3	861.5
85°	*710.2*	632.1	617.5	590.6	585.7
87.5°	*236.7*	275.8	256.3	231.8	246.5
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)