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-UNV-L740-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 (P23760)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-60SE-W-UNV-L740-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:	57759.0 lumens
Efficiency:	N/A
Efficacy:	149.6 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):	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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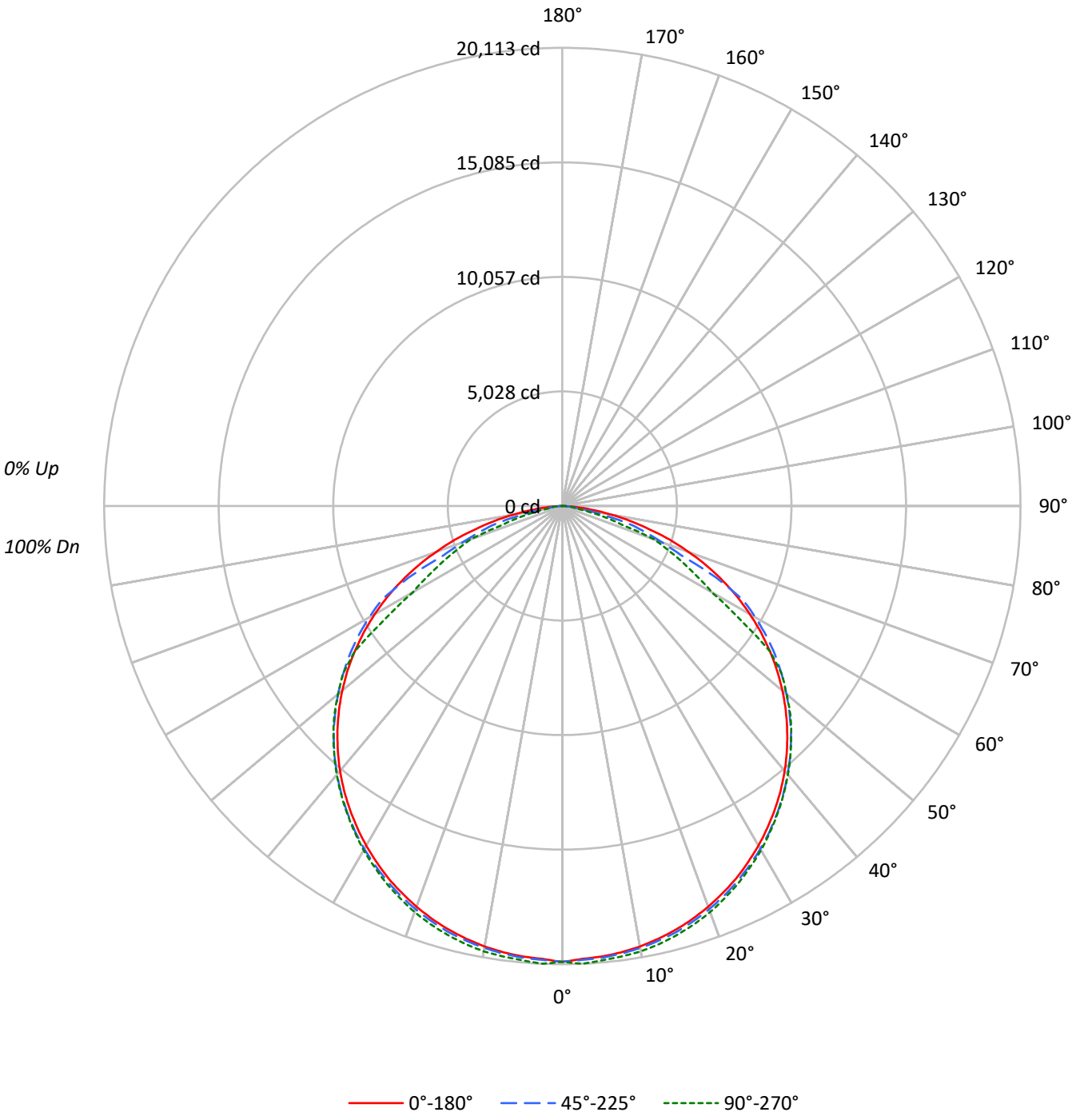
Luminous Intensity Polar Plot



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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	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°	26919	26919	26919
5°	26808	26883	27035
10°	26824	26919	27122
15°	26817	26960	27147
20°	26803	26974	27163
25°	26793	26985	27135
30°	26746	27007	27108
35°	26712	27020	27055
40°	26664	27018	27060
45°	26564	27006	27038
50°	26405	26892	26887
55°	26097	26750	26086
60°	25612	26355	20410
65°	24758	23719	18389
70°	23194	18250	16947
75°	20537	15911	10562
80°	16913	9367	4721
85°	11146	5740	6184

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1898.6	3.3
10°-20°	5477.6	9.5
20°-30°	8397.8	14.5
30°-40°	10299.0	17.8
40°-50°	10935.9	18.9
50°-60°	9988.6	17.3
60°-70°	6956.0	12.0
70°-80°	3244.3	5.6
80°-90°	561.2	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°	15773.9	27.3
0°-40°	26073.0	45.1
0°-60°	46997.4	81.4
0°-90°	57759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	57759.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20007	20007	20007	20007	20007	
5°	19849	19988	19904	20000	20017	###
15°	19252	19386	19355	19472	19489	5436
25°	18048	18206	18177	18311	18278	8317
35°	16263	16450	16450	16560	16472	10177
45°	13960	14171	14193	14284	14210	10767
55°	11125	11348	11403	11422	11120	9935
65°	7776	8016	7450	5925	5776	7673
75°	3951	4200	3061	2120	2032	4223
85°	722	475	372	398	401	933
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20007.2	20007.2	20007.2	20007.2	*20007.2*
2.5°	*19901.7*	*20028.8*	*19944.8*	*20036.0*	*20112.7*
5°	19848.9	19988.0	19904.0	20000.0	*20016.8*
7.5°	19762.5	19894.5	19817.7	19923.2	*19949.6*
10°	19633.0	19762.5	19702.6	19827.3	*19851.3*
12.5°	19457.9	19589.8	19544.3	19681.0	*19697.8*
15°	19251.6	19385.9	19354.8	19472.3	*19489.1*
17.5°	19009.4	19148.5	19112.5	19237.2	*19249.2*
20°	18719.1	18870.2	18839.0	18985.4	*18971.0*
22.5°	18392.9	18553.6	18529.6	18675.9	*18632.8*
25°	18047.5	18205.8	18177.0	18311.3	*18277.8*
27.5°	17642.1	17817.2	17790.8	17920.4	*17867.6*
30°	17215.2	17392.7	17383.1	17500.6	*17447.8*
32.5°	16754.6	16944.1	16934.5	17049.6	*16968.1*
35°	16262.9	16450.0	16450.0	16560.3	*16471.6*
37.5°	15742.4	15931.9	15934.3	16039.8	*15955.9*
40°	15181.1	15370.6	15382.6	15483.3	*15406.6*
42.5°	14591.0	14797.3	14806.9	14898.1	*14826.1*
45°	13960.2	14171.3	14192.8	14284.0	*14209.6*
47.5°	13300.5	13514.0	13533.2	13631.6	*13578.8*
50°	12614.5	12820.8	12847.2	12928.8	*12844.8*
52.5°	11890.1	12101.2	12137.2	12187.6	*12149.2*
55°	11125.0	11348.0	11403.2	11422.4	*11120.2*
57.5°	10333.4	10561.3	10614.1	10172.7	*9201.2*
60°	9517.9	9743.3	9793.7	8275.4	*7584.6*
62.5°	8668.7	8889.4	8944.6	6857.8	*6637.1*
65°	7776.4	8016.3	7450.2	5924.7	*5776.0*
67.5°	6860.2	7107.2	5634.4	5078.0	*4989.2*
70°	5895.9	6145.4	4639.0	4329.6	*4308.0*
72.5°	4970.0	5154.7	3806.7	3281.4	*2763.3*
75°	3950.6	4200.0	3060.7	2120.4	*2031.7*
77.5°	3063.1	2648.1	1847.0	1554.3	*1225.7*
80°	2182.8	1770.2	1208.9	645.2	*609.3*
82.5°	1384.0	1156.2	474.9	486.9	*508.5*
85°	722.0	474.9	371.8	398.2	*400.6*
87.5°	232.7	203.9	223.1	220.7	*218.3*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)