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-N-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 (P23767)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-12SE-N-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:	12162.0 lumens
Efficiency:	N/A
Efficacy:	158.8 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 0.62 / 0.77
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

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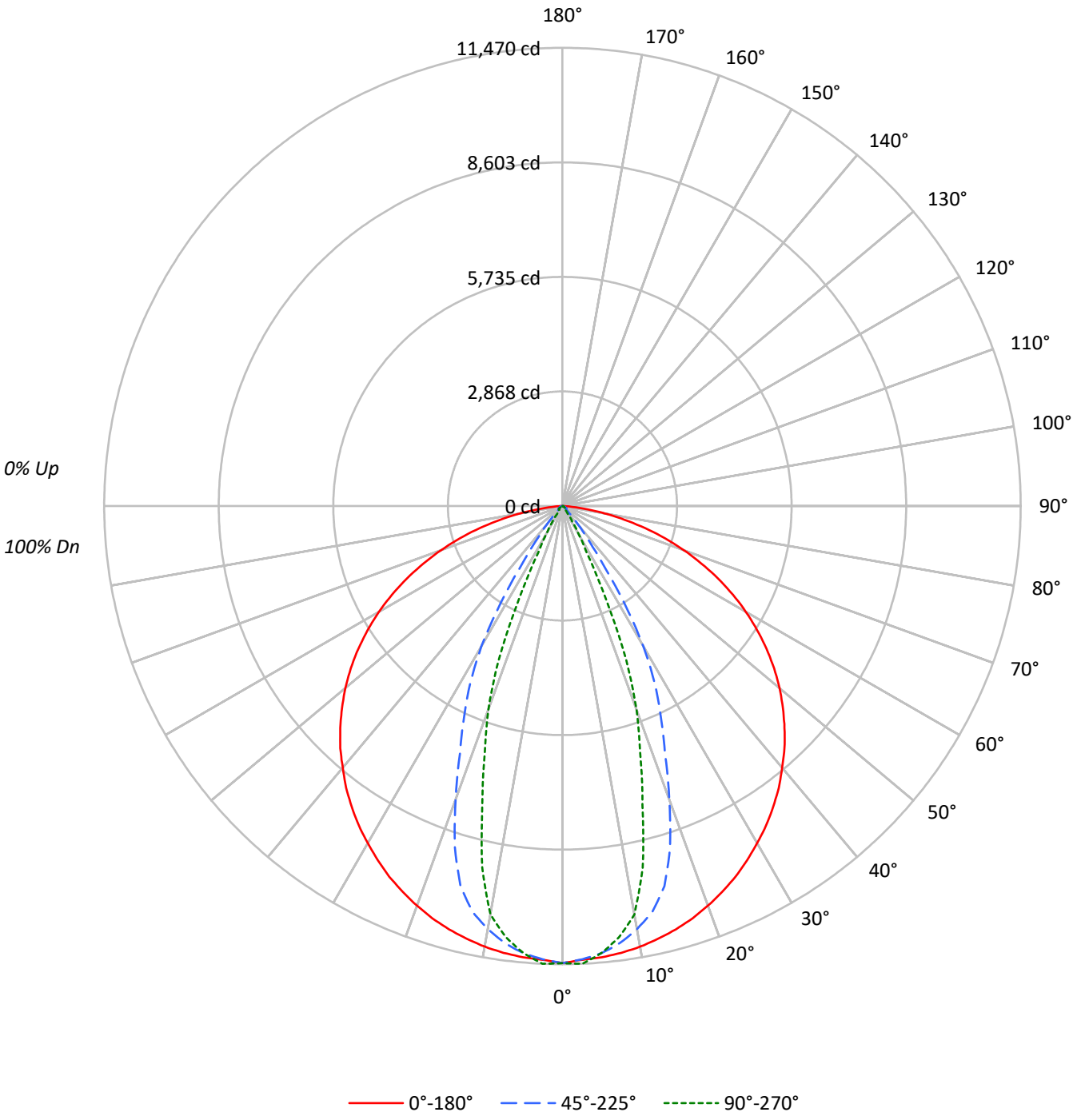
Luminous Intensity Polar Plot



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15396	15396	15396
5°	15313	15178	15172
10°	15304	14692	14176
15°	15282	13726	10789
20°	15247	11189	7766
25°	15208	8652	3826
30°	15141	6288	1241
35°	15105	2790	319
40°	15026	1133	215
45°	14959	318	229
50°	14842	226	254
55°	14628	268	109
60°	14267	299	66
65°	13680	191	78
70°	12709	169	96
75°	11118	127	133
80°	8313	156	190
85°	4117	202	252

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1061.9	8.7
10°-20°	2655.2	21.8
20°-30°	2876.0	23.6
30°-40°	2129.8	17.5
40°-50°	1534.0	12.6
50°-60°	949.8	7.8
60°-70°	584.2	4.8
70°-80°	307.9	2.5
80°-90°	63.0	0.5
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°	6593.2	54.2
0°-40°	8723.0	71.7
0°-60°	11206.9	92.1
0°-90°	12162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11443	11443	11443	11443	11443	
5°	11338	11380	11238	11246	11233	###
15°	10971	10716	9854	8380	7745	3097
25°	10244	9383	5828	3666	2577	4720
35°	9196	6483	1698	400	194	5753
45°	7861	3652	167	121	120	6063
55°	6236	752	114	103	46	5567
65°	4297	80	60	38	24	4240
75°	2139	18	24	32	26	2259
85°	267	7	13	20	16	403
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11442.6	11442.6	11442.6	11442.6	*11442.6*
2.5°	*11369.1*	*11441.5*	*11356.0*	*11419.7*	*11470.3*
5°	11338.0	11380.0	11237.9	11246.1	*11233.0*
7.5°	11283.6	11273.8	11034.9	10930.3	*10884.6*
10°	11201.4	11136.6	10753.4	10535.1	*10376.2*
12.5°	11095.3	10950.5	10402.3	9708.3	*9277.2*
15°	10971.2	10716.4	9853.6	8379.6	*7745.4*
17.5°	10823.1	10462.2	8956.6	7023.1	*6457.0*
20°	10648.4	10178.6	7814.5	5975.2	*5423.8*
22.5°	10453.5	9833.5	6705.2	4966.0	*4179.4*
25°	10243.9	9383.3	5827.7	3666.1	*2576.9*
27.5°	10001.7	8804.7	5004.7	2159.4	*1315.1*
30°	9745.3	8107.9	4047.2	1161.6	*798.5*
32.5°	9486.7	7318.1	2863.8	725.6	*452.9*
35°	9196.1	6483.1	1698.3	399.5	*194.3*
37.5°	8892.9	5717.7	1003.8	181.8	*124.7*
40°	8554.8	5018.3	645.0	120.8	*122.5*
42.5°	8228.2	4366.1	363.1	119.2	*121.4*
45°	7861.4	3652.5	167.1	120.8	*120.3*
47.5°	7481.9	2912.8	108.3	121.9	*121.9*
50°	7090.6	2082.6	107.8	124.7	*121.4*
52.5°	6677.4	1299.3	112.1	124.1	*99.6*
55°	6236.0	752.3	114.3	103.4	*46.3*
57.5°	5778.7	443.6	115.4	59.3	*26.1*
60°	5301.9	245.5	111.0	44.1	*24.5*
62.5°	4810.3	117.0	87.6	41.4	*24.0*
65°	4297.0	79.5	59.9	38.1	*24.5*
67.5°	3764.1	61.5	47.4	35.9	*25.0*
70°	3230.7	45.7	43.0	35.9	*24.5*
72.5°	2688.5	31.0	35.9	36.5	*24.5*
75°	2138.7	18.5	24.5	32.1	*25.6*
77.5°	1593.8	11.4	19.1	33.2	*31.0*
80°	1072.9	9.8	20.1	31.0	*24.5*
82.5°	629.8	8.7	19.6	24.0	*19.6*
85°	266.7	7.1	13.1	19.6	*16.3*
87.5°	50.1	6.0	10.3	15.8	*14.2*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)