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-L750-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-L750-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:	59074.0 lumens
Efficiency:	N/A
Efficacy:	153.0 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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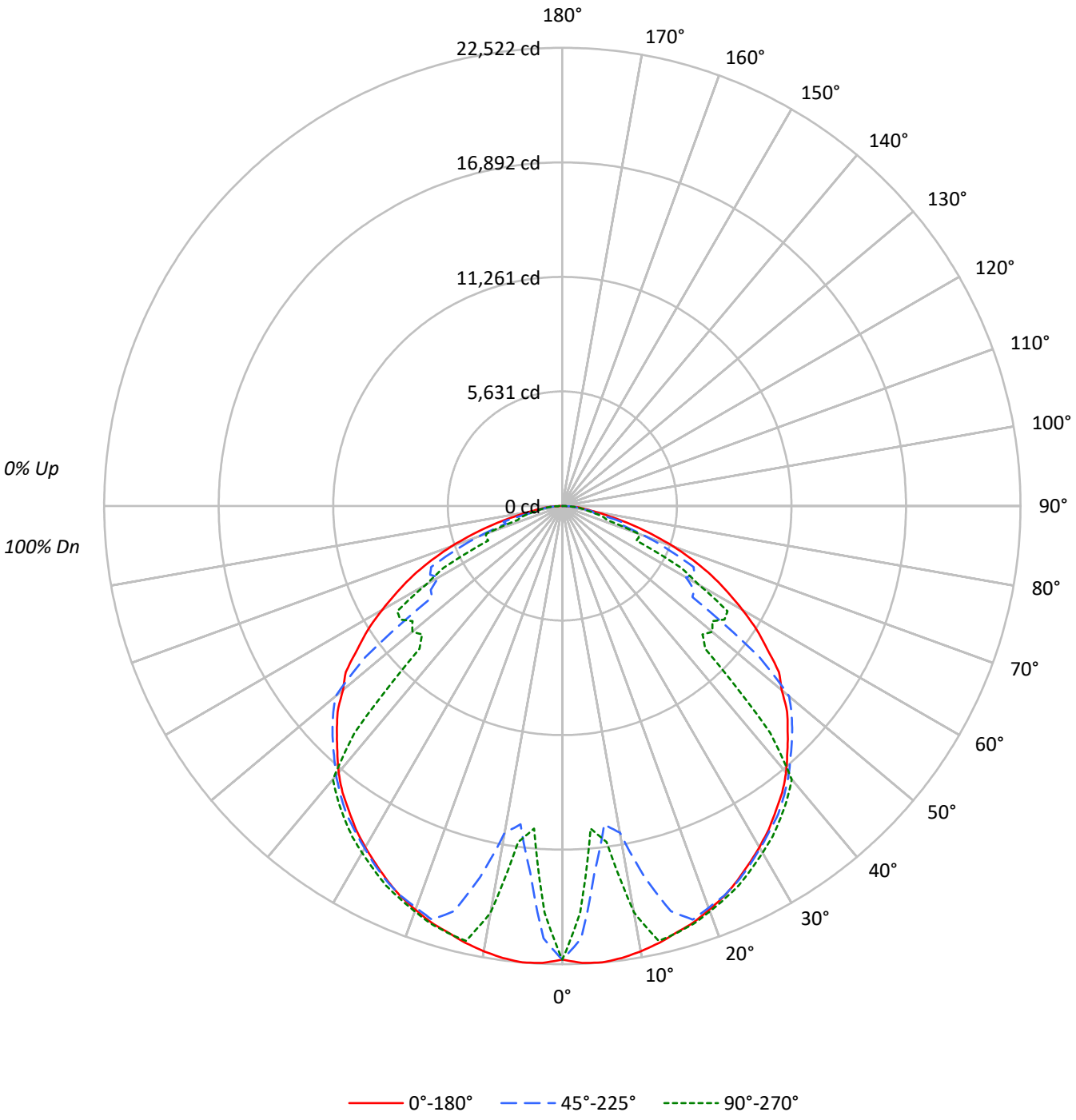
Luminous Intensity Polar Plot



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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°	30002	30002	30002
5°	30420	24438	21492
10°	30367	22287	27719
15°	30233	28725	30259
20°	30233	30095	30363
25°	30179	30246	30523
30°	30091	30191	30580
35°	30044	30377	30731
40°	30047	30375	30811
45°	29812	30395	18889
50°	29474	30457	20131
55°	28853	18314	22817
60°	27523	18877	20894
65°	25789	22665	12784
70°	22772	17171	15671
75°	18144	15608	10867
80°	12499	11280	9338
85°	11978	10414	9879

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1783.1	3.0
10°-20°	5586.2	9.5
20°-30°	9190.5	15.6
30°-40°	11555.8	19.6
40°-50°	11333.4	19.2
50°-60°	9390.3	15.9
60°-70°	6623.2	11.2
70°-80°	2889.6	4.9
80°-90°	722.0	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°	16559.8	28.0
0°-40°	28115.6	47.6
0°-60°	48839.3	82.7
0°-90°	59074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	59074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22298	22298	22298	22298	22298	
5°	22522	20963	18094	16406	15913	###
15°	21704	15073	20621	21789	21723	6137
25°	20328	18600	20373	20509	20560	9370
35°	18291	18280	18494	18616	18710	11460
45°	15667	15715	15974	14148	9927	12094
55°	12300	12702	7807	8876	9727	11005
65°	8100	8578	7119	5477	4016	7965
75°	3490	3421	3002	1962	2090	3743
85°	776	691	675	645	640	805
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*22298.5*	22298.5	22298.5	22298.5	22298.5
2.5°	*22482.5*	22015.9	21274.6	20341.4	20010.8
5°	*22522.5*	*20962.7*	*18093.7*	*16405.9*	*15912.7*
7.5°	*22407.8*	19050.9	15774.0	16128.6	16651.2
10°	*22226.5*	17371.1	16312.6	19192.2	20288.1
12.5°	*21994.6*	15878.0	18688.3	21679.9	21898.6
15°	*21703.9*	15072.8	20621.4	21789.2	21722.6
17.5°	*21458.6*	15544.7	21314.6	21570.6	21522.6
20°	*21114.7*	16485.9	21018.7	21224.0	21205.3
22.5°	*20768.0*	17600.4	20738.7	20885.4	20885.4
25°	*20328.1*	18600.3	20373.4	20509.4	20560.1
27.5°	*19845.5*	19176.2	19917.5	20029.5	20120.1
30°	*19368.2*	19258.9	19432.2	19576.2	19682.8
32.5°	*18864.3*	18821.6	18957.6	19109.6	19245.6
35°	*18291.0*	18280.4	18493.7	18616.3	18709.6
37.5°	*17752.4*	17715.1	17912.4	18083.0	18155.0
40°	*17107.2*	17107.2	17293.8	17467.1	17541.8
42.5°	*16371.3*	16475.3	16619.2	16797.9	15128.8
45°	*15667.4*	15715.3	15974.0	14147.5	9926.7
47.5°	*14990.1*	15051.4	15296.7	9094.9	9342.8
50°	*14080.9*	14358.2	14550.2	9068.2	9617.5
52.5°	*13417.0*	13537.0	12214.5	8977.5	9286.8
55°	*12299.8*	12702.4	7807.0	8876.2	9726.8
57.5°	*11345.2*	11638.5	7676.4	9094.9	9622.8
60°	*10228.0*	10676.0	7015.1	8774.9	7764.4
62.5°	*9156.2*	9582.8	7324.4	6905.8	6575.2
65°	*8100.3*	8577.6	7119.1	5476.6	4015.5
67.5°	*6943.1*	6497.8	5679.3	3858.2	4060.8
70°	*5788.6*	4538.1	4364.8	4314.1	3983.5
72.5°	*4602.1*	3311.6	2898.3	3236.9	2317.0
75°	*3490.2*	3420.9	3002.3	1962.4	2090.4
77.5°	*2421.0*	2469.0	1607.8	1914.4	1589.1
80°	*1613.1*	1397.2	1455.8	1221.2	1205.2
82.5°	*1117.2*	1141.2	957.2	927.9	941.2
85°	*775.9*	690.6	674.6	645.3	639.9
87.5°	*258.6*	301.3	280.0	253.3	269.3
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)