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-LD5-48SE-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-LD5-48SE-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:	44257.0 lumens
Efficiency:	N/A
Efficacy:	148.0 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):	299.1
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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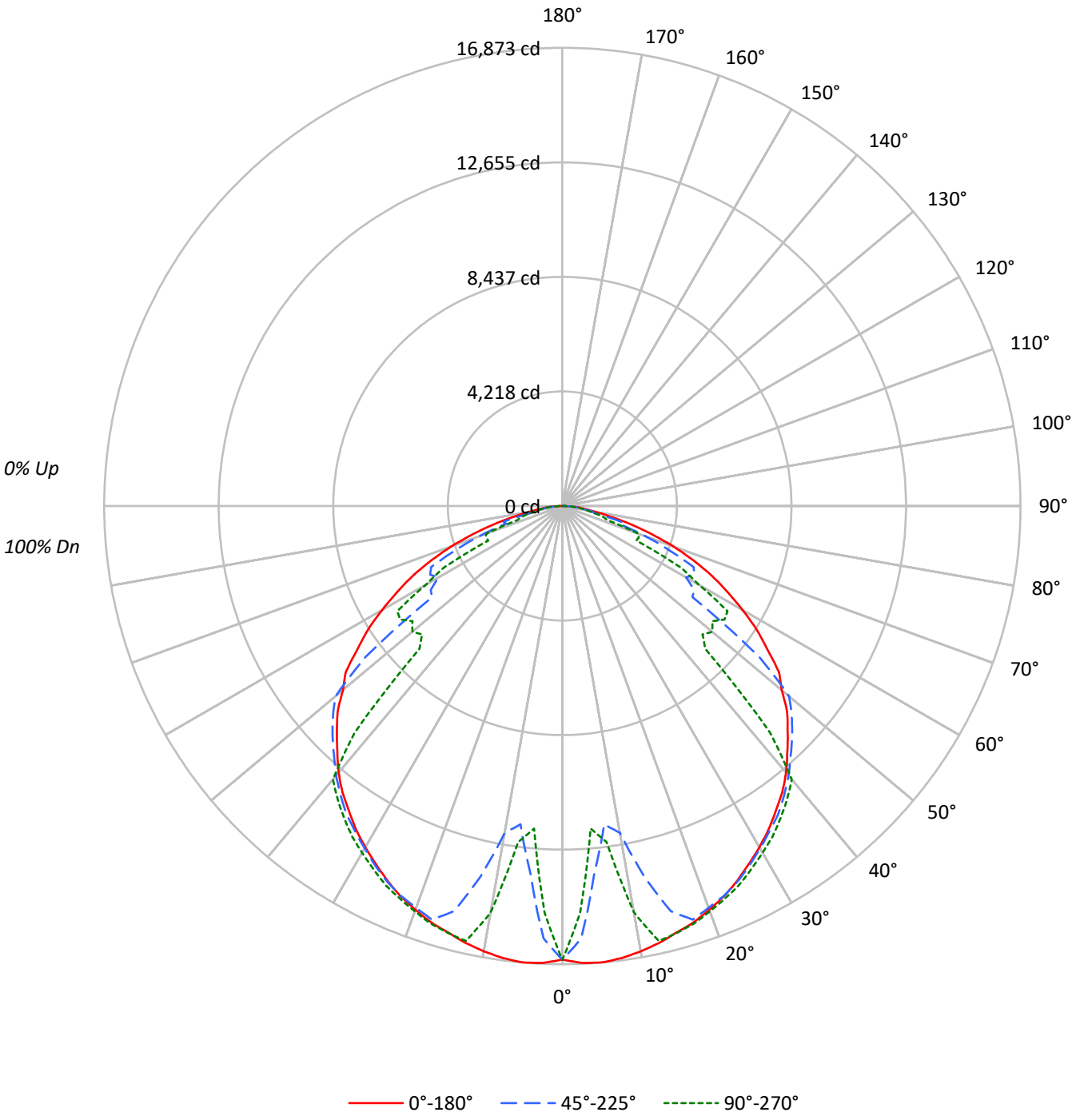
Luminous Intensity Polar Plot



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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°	22477	22477	22477
5°	22790	18308	16101
10°	22750	16697	20766
15°	22650	21520	22669
20°	22650	22547	22747
25°	22609	22660	22867
30°	22544	22618	22910
35°	22508	22758	23023
40°	22511	22756	23083
45°	22335	22772	14151
50°	22081	22817	15082
55°	21616	13720	17094
60°	20620	14143	15653
65°	19321	16980	9578
70°	17060	12864	11740
75°	13593	11693	8141
80°	9364	8451	6996
85°	8974	7802	7401

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1335.9	3.0
10°-20°	4185.1	9.5
20°-30°	6885.3	15.6
30°-40°	8657.4	19.6
40°-50°	8490.7	19.2
50°-60°	7035.0	15.9
60°-70°	4961.9	11.2
70°-80°	2164.8	4.9
80°-90°	540.9	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°	12406.3	28.0
0°-40°	21063.6	47.6
0°-60°	36589.4	82.7
0°-90°	44257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	44257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16706	16706	16706	16706	16706	
5°	16873	15705	13555	12291	11921	###
15°	16260	11292	15449	16324	16274	4598
25°	15229	13935	15263	15365	15403	7020
35°	13703	13695	13855	13947	14017	8586
45°	11738	11774	11967	10599	7437	9060
55°	9215	9516	5849	6650	7287	8245
65°	6069	6426	5334	4103	3008	5967
75°	2615	2563	2249	1470	1566	2804
85°	581	517	505	483	479	603
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*16705.6*	16705.6	16705.6	16705.6	16705.6
2.5°	*16843.4*	16493.8	15938.5	15239.4	14991.7
5°	*16873.4*	*15704.8*	*13555.4*	*12291.0*	*11921.4*
7.5°	*16787.5*	14272.6	11817.6	12083.2	12474.8
10°	*16651.6*	13014.1	12221.1	14378.4	15199.4
12.5°	*16477.9*	11895.5	14000.9	16242.1	16405.9
15°	*16260.1*	11292.2	15449.1	16324.0	16274.1
17.5°	*16076.3*	11645.8	15968.5	16160.2	16124.3
20°	*15818.7*	12350.9	15746.8	15900.6	15886.6
22.5°	*15559.0*	13185.9	15537.0	15646.9	15646.9
25°	*15229.4*	13935.0	15263.3	15365.2	15403.2
27.5°	*14867.8*	14366.4	14921.8	15005.7	15073.6
30°	*14510.3*	14428.4	14558.2	14666.1	14746.0
32.5°	*14132.7*	14100.8	14202.6	14316.5	14418.4
35°	*13703.2*	13695.3	13855.1	13947.0	14016.9
37.5°	*13299.7*	13271.8	13419.6	13547.4	13601.4
40°	*12816.3*	12816.3	12956.2	13086.0	13141.9
42.5°	*12265.0*	12342.9	12450.8	12584.6	11334.1
45°	*11737.7*	11773.6	11967.4	10599.0	7436.9
47.5°	*11230.3*	11276.2	11460.0	6813.7	6999.4
50°	*10549.1*	10756.9	10900.7	6793.7	7205.2
52.5°	*10051.7*	10141.6	9150.8	6725.8	6957.5
55°	*9214.7*	9516.4	5848.9	6649.9	7287.1
57.5°	*8499.6*	8719.3	5751.0	6813.7	7209.2
60°	*7662.6*	7998.2	5255.6	6574.0	5816.9
62.5°	*6859.6*	7179.2	5487.3	5173.7	4926.0
65°	*6068.6*	6426.1	5333.5	4103.0	3008.3
67.5°	*5201.6*	4868.0	4254.8	2890.5	3042.3
70°	*4336.7*	3399.8	3270.0	3232.0	2984.4
72.5°	*3447.8*	2481.0	2171.3	2425.0	1735.9
75°	*2614.8*	2562.9	2249.3	1470.2	1566.1
77.5°	*1813.8*	1849.7	1204.5	1434.2	1190.5
80°	*1208.5*	1046.7	1090.7	914.9	902.9
82.5°	*837.0*	855.0	717.1	695.2	705.1
85°	*581.3*	517.4	505.4	483.4	479.4
87.5°	*193.8*	225.7	209.7	189.8	201.8
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)