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-N-UNV-L835-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 (P23767)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-48SE-N-UNV-L835-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:	43497.0 lumens
Efficiency:	N/A
Efficacy:	145.4 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):	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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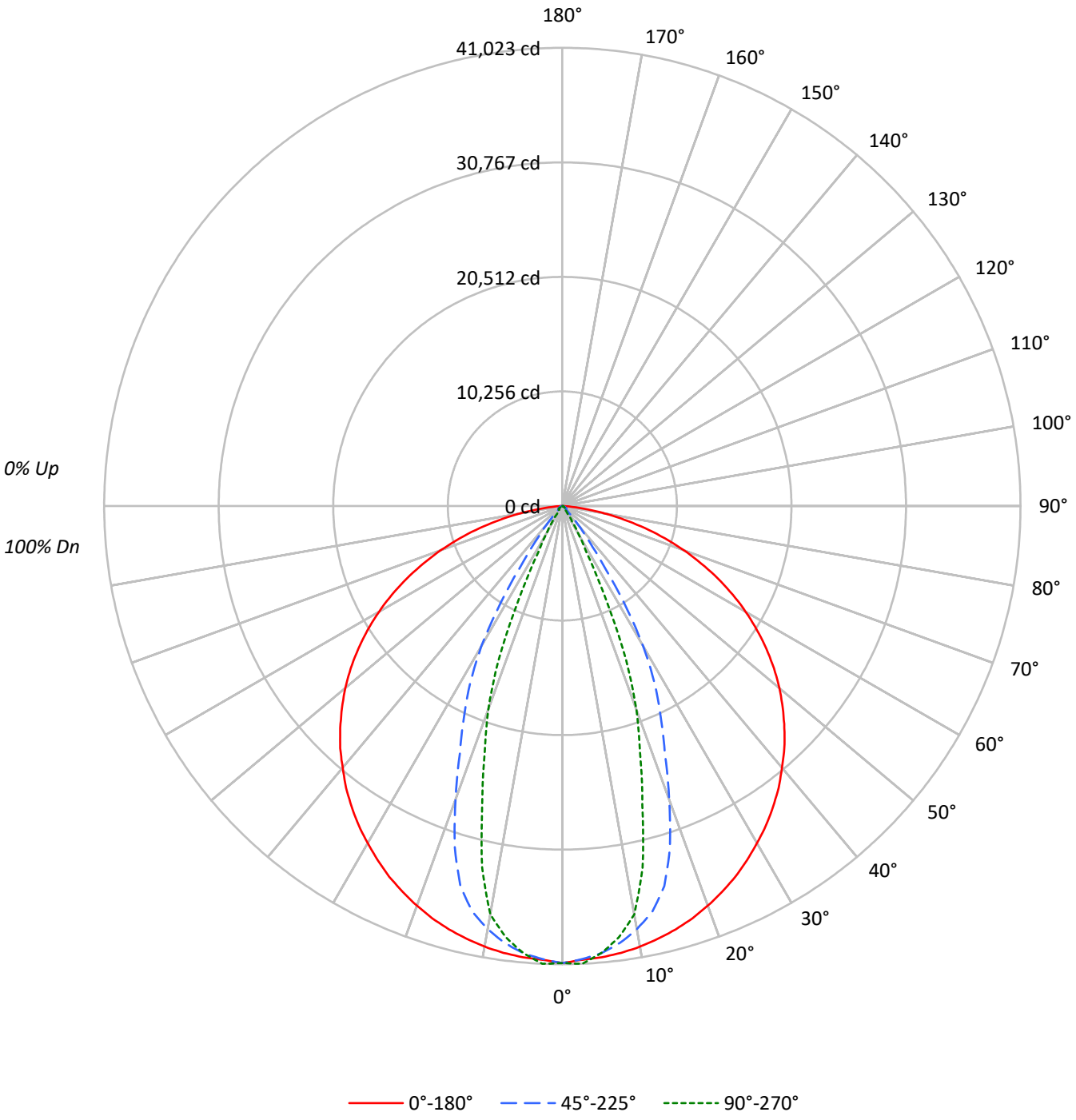
Luminous Intensity Polar Plot



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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	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°	55063	55063	55063
5°	54768	54284	54261
10°	54734	52545	50702
15°	54657	49089	38586
20°	54530	40018	27775
25°	54391	30943	13682
30°	54150	22488	4437
35°	54022	9977	1142
40°	53739	4052	769
45°	53499	1137	819
50°	53082	807	909
55°	52317	959	388
60°	51026	1069	236
65°	48927	682	279
70°	45454	605	345
75°	39764	455	476
80°	29732	558	679
85°	14726	721	902

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3797.8	8.7
10°-20°	9496.4	21.8
20°-30°	10286.1	23.6
30°-40°	7617.3	17.5
40°-50°	5486.4	12.6
50°-60°	3397.1	7.8
60°-70°	2089.2	4.8
70°-80°	1101.4	2.5
80°-90°	225.4	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°	23580.2	54.2
0°-40°	31197.5	71.7
0°-60°	40081.0	92.1
0°-90°	43497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	43497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	40924	40924	40924	40924	40924	
5°	40550	40700	40192	40221	40174	###
15°	39238	38327	35241	29969	27701	11077
25°	36637	33559	20843	13112	9216	16881
35°	32890	23186	6074	1429	695	20576
45°	28116	13063	598	432	430	21683
55°	22303	2690	409	370	166	19910
65°	15368	284	214	136	88	15163
75°	7649	66	88	115	92	8079
85°	954	25	47	70	58	###
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	40924.0	40924.0	40924.0	40924.0	*40924.0*
2.5°	*40661.1*	*40920.1*	*40614.4*	*40842.2*	*41023.2*
5°	40550.2	40700.1	40192.0	40221.2	*40174.4*
7.5°	40355.5	40320.4	39465.8	39092.0	*38928.5*
10°	40061.5	39829.8	38459.3	37678.6	*37110.1*
12.5°	39681.9	39164.0	37203.6	34721.4	*33179.5*
15°	39238.0	38326.9	35241.2	29969.2	*27701.2*
17.5°	38708.5	37417.7	32032.9	25117.8	*23093.1*
20°	38083.6	36403.5	27948.4	21370.2	*19398.0*
22.5°	37386.6	35169.2	23980.8	17760.8	*14947.6*
25°	36637.1	33559.2	20842.6	13111.8	*9216.2*
27.5°	35770.7	31489.7	17899.0	7723.0	*4703.5*
30°	34853.8	28997.8	14474.6	4154.5	*2856.0*
32.5°	33929.1	26173.0	10242.2	2595.1	*1619.7*
35°	32889.5	23186.5	6074.1	1429.0	*695.0*
37.5°	31805.1	20449.3	3589.9	650.2	*445.8*
40°	30596.1	17947.7	2307.0	432.2	*438.0*
42.5°	29428.0	15615.4	1298.5	426.4	*434.1*
45°	28115.9	13063.1	597.7	432.2	*430.2*
47.5°	26758.9	10417.4	387.4	436.1	*436.1*
50°	25359.2	7448.5	385.5	445.8	*434.1*
52.5°	23881.6	4647.0	401.0	443.9	*356.3*
55°	22302.7	2690.5	408.8	369.9	*165.5*
57.5°	20667.4	1586.7	412.7	212.2	*93.4*
60°	18962.0	878.0	397.1	157.7	*87.6*
62.5°	17204.0	418.6	313.4	148.0	*85.7*
65°	15368.1	284.2	214.1	136.3	*87.6*
67.5°	13462.2	220.0	169.4	128.5	*89.6*
70°	11554.3	163.5	153.8	128.5	*87.6*
72.5°	9615.3	111.0	128.5	130.4	*87.6*
75°	7649.0	66.2	87.6	114.9	*91.5*
77.5°	5700.3	40.9	68.1	118.8	*111.0*
80°	3837.2	35.0	72.0	111.0	*87.6*
82.5°	2252.5	31.1	70.1	85.7	*70.1*
85°	953.9	25.3	46.7	70.1	*58.4*
87.5°	179.1	21.4	37.0	56.5	*50.6*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)