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-LD5-24SE-N-UNV-L740-ED2-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-LD5-24SE-N-UNV-L740-ED2-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:	22250.0 lumens
Efficiency:	N/A
Efficacy:	144.5 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):	154
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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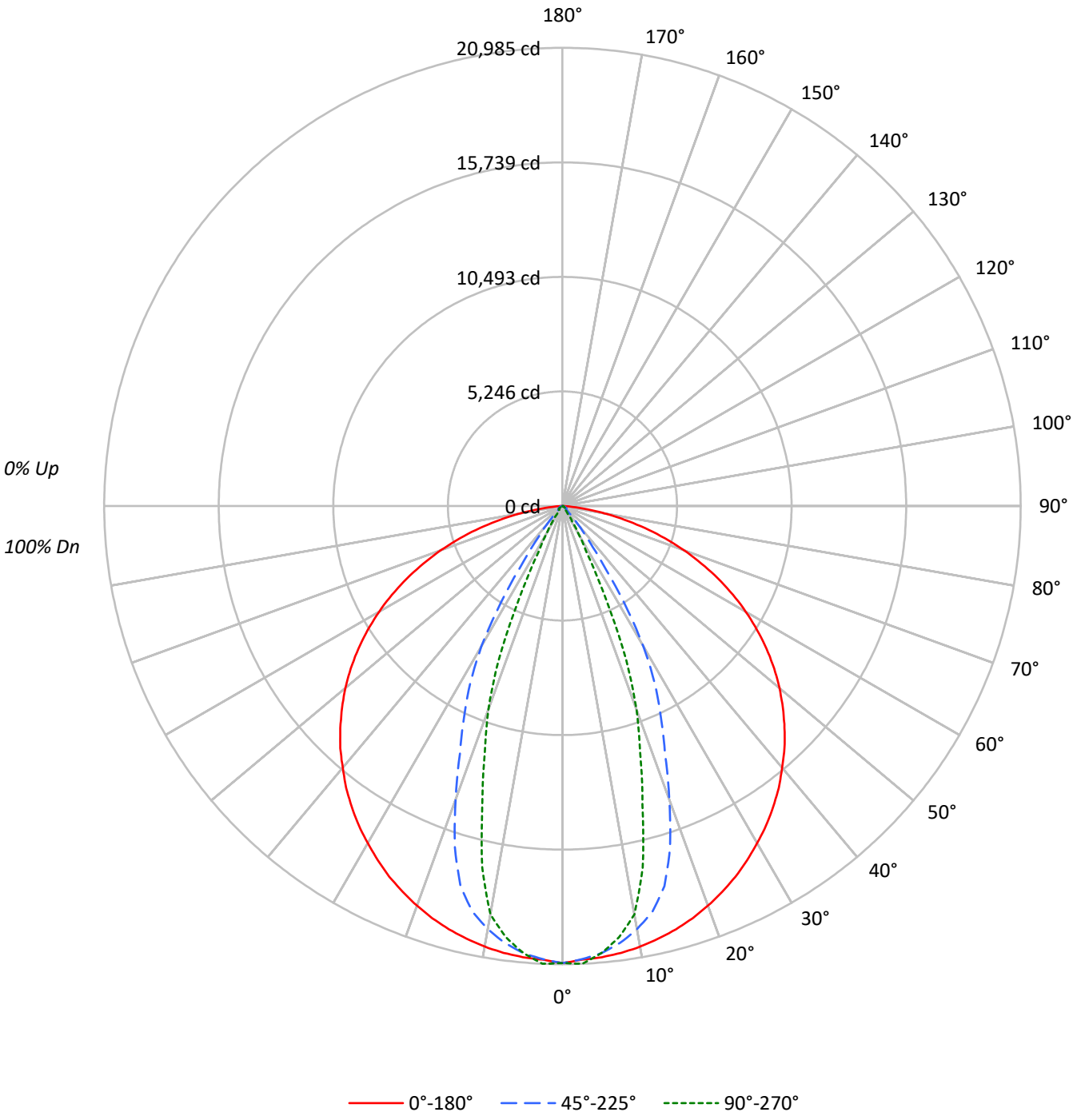
Luminous Intensity Polar Plot



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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°	28166	28166	28166
5°	28016	27768	27756
10°	27998	26878	25935
15°	27959	25111	19738
20°	27894	20470	14208
25°	27822	15828	6999
30°	27699	11503	2270
35°	27634	5104	584
40°	27489	2073	394
45°	27366	582	419
50°	27153	413	465
55°	26762	491	198
60°	26101	547	121
65°	25028	349	143
70°	23251	310	176
75°	20340	233	243
80°	15208	285	347
85°	7534	369	462

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1942.7	8.7
10°-20°	4857.7	21.8
20°-30°	5261.6	23.6
30°-40°	3896.5	17.5
40°-50°	2806.5	12.6
50°-60°	1737.7	7.8
60°-70°	1068.7	4.8
70°-80°	563.4	2.5
80°-90°	115.3	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°	12062.0	54.2
0°-40°	15958.5	71.7
0°-60°	20502.6	92.1
0°-90°	22250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20934	20934	20934	20934	20934	
5°	20743	20819	20559	20574	20550	###
15°	20071	19605	18027	15330	14170	5666
25°	18741	17166	10662	6707	4714	8635
35°	16824	11861	3107	731	356	10525
45°	14382	6682	306	221	220	11092
55°	11408	1376	209	189	85	10184
65°	7861	145	110	70	45	7756
75°	3913	34	45	59	47	4133
85°	488	13	24	36	30	737
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20933.8	20933.8	20933.8	20933.8	*20933.8*
2.5°	*20799.4*	*20931.8*	*20775.5*	*20892.0*	*20984.6*
5°	20742.6	20819.3	20559.4	20574.3	*20550.4*
7.5°	20643.0	20625.1	20187.9	19996.7	*19913.1*
10°	20492.6	20374.1	19673.1	19273.7	*18982.9*
12.5°	20298.5	20033.6	19030.7	17761.0	*16972.3*
15°	20071.4	19605.3	18026.9	15330.1	*14170.0*
17.5°	19800.5	19140.3	16385.8	12848.5	*11812.8*
20°	19480.9	18621.4	14296.5	10931.5	*9922.7*
22.5°	19124.3	17990.1	12266.9	9085.2	*7646.2*
25°	18740.9	17166.5	10661.6	6707.1	*4714.4*
27.5°	18297.8	16107.9	9155.9	3950.5	*2406.0*
30°	17828.7	14833.2	7404.2	2125.1	*1460.9*
32.5°	17355.7	13388.2	5239.2	1327.5	*828.5*
35°	16823.9	11860.6	3107.1	731.0	*355.5*
37.5°	16269.2	10460.4	1836.4	332.6	*228.1*
40°	15650.8	9180.8	1180.1	221.1	*224.1*
42.5°	15053.3	7987.7	664.2	218.1	*222.1*
45°	14382.1	6682.2	305.7	221.1	*220.1*
47.5°	13688.0	5328.8	198.2	223.1	*223.1*
50°	12972.0	3810.1	197.2	228.1	*222.1*
52.5°	12216.1	2377.1	205.1	227.1	*182.2*
55°	11408.5	1376.3	209.1	189.2	*84.6*
57.5°	10572.0	811.6	211.1	108.5	*47.8*
60°	9699.6	449.1	203.2	80.7	*44.8*
62.5°	8800.3	214.1	160.3	75.7	*43.8*
65°	7861.3	145.4	109.5	69.7	*44.8*
67.5°	6886.3	112.5	86.6	65.7	*45.8*
70°	5910.4	83.7	78.7	65.7	*44.8*
72.5°	4918.5	56.8	65.7	66.7	*44.8*
75°	3912.7	33.9	44.8	58.8	*46.8*
77.5°	2915.9	20.9	34.9	60.7	*56.8*
80°	1962.8	17.9	36.8	56.8	*44.8*
82.5°	1152.2	15.9	35.9	43.8	*35.9*
85°	488.0	12.9	23.9	35.9	*29.9*
87.5°	91.6	11.0	18.9	28.9	*25.9*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)