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-LD5-15SE-W-WG-UNV-L740-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 (P33336)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-15SE-W-WG-UNV-L740-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:	14329.0 lumens
Efficiency:	N/A
Efficacy:	150.5 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):	95.2
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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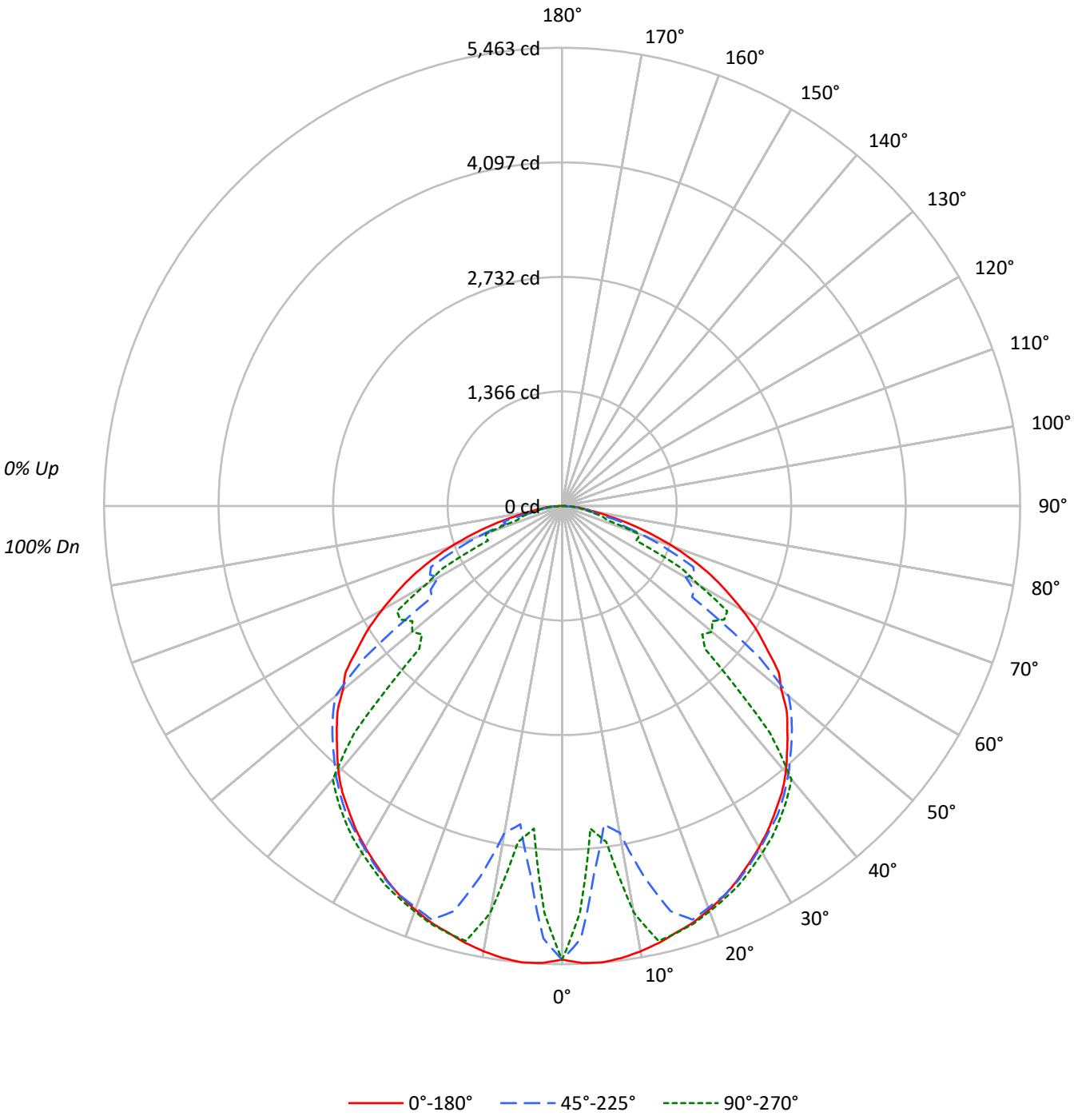
Luminous Intensity Polar Plot



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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°	7277	7277	7277
5°	7379	5928	5213
10°	7366	5406	6723
15°	7333	6967	7339
20°	7333	7300	7365
25°	7320	7337	7404
30°	7299	7323	7418
35°	7287	7368	7454
40°	7288	7368	7473
45°	7231	7373	4582
50°	7149	7388	4883
55°	6998	4442	5534
60°	6676	4579	5068
65°	6255	5498	3101
70°	5524	4165	3801
75°	4401	3786	2636
80°	3032	2736	2265
85°	2905	2526	2396

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.5	3.0
10°-20°	1355.0	9.5
20°-30°	2229.3	15.6
30°-40°	2803.0	19.6
40°-50°	2749.0	19.2
50°-60°	2277.7	15.9
60°-70°	1606.5	11.2
70°-80°	700.9	4.9
80°-90°	175.1	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°	4016.8	28.0
0°-40°	6819.7	47.6
0°-60°	11846.5	82.7
0°-90°	14329.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14329.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5409	5409	5409	5409	5409	
5°	5463	5085	4389	3979	3860	519
15°	5264	3656	5002	5285	5269	1489
25°	4931	4512	4942	4975	4987	2273
35°	4437	4434	4486	4516	4538	2780
45°	3800	3812	3875	3432	2408	2933
55°	2983	3081	1894	2153	2359	2669
65°	1965	2081	1727	1328	974	1932
75°	847	830	728	476	507	908
85°	188	168	164	156	155	195
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*5408.7*	5408.7	5408.7	5408.7	5408.7
2.5°	*5453.4*	5340.2	5160.4	4934.0	4853.8
5°	*5463.1*	*5084.7*	*4388.8*	*3979.4*	*3859.8*
7.5°	*5435.2*	4621.0	3826.1	3912.2	4038.9
10°	*5391.3*	4213.5	3956.8	4655.3	4921.1
12.5°	*5335.0*	3851.4	4533.0	5258.7	5311.7
15°	*5264.5*	3656.1	5001.9	5285.2	5269.0
17.5°	*5205.0*	3770.5	5170.1	5232.2	5220.5
20°	*5121.6*	3998.8	5098.3	5148.1	5143.6
22.5°	*5037.5*	4269.2	5030.4	5066.0	5066.0
25°	*4930.8*	4511.7	4941.8	4974.8	4987.1
27.5°	*4813.7*	4651.4	4831.2	4858.4	4880.3
30°	*4698.0*	4671.4	4713.5	4748.4	4774.3
32.5°	*4575.7*	4565.4	4598.4	4635.2	4668.2
35°	*4436.7*	4434.1	4485.8	4515.6	4538.2
37.5°	*4306.0*	4297.0	4344.8	4386.2	4403.7
40°	*4149.5*	4149.5	4194.8	4236.8	4254.9
42.5°	*3971.0*	3996.2	4031.2	4074.5	3669.6
45°	*3800.3*	3811.9	3874.7	3431.6	2407.8
47.5°	*3636.0*	3650.9	3710.4	2206.0	2266.2
50°	*3415.5*	3482.7	3529.3	2199.6	2332.8
52.5°	*3254.4*	3283.5	2962.7	2177.6	2252.6
55°	*2983.4*	3081.1	1893.7	2153.0	2359.3
57.5°	*2751.9*	2823.0	1862.0	2206.0	2334.1
60°	*2480.9*	2589.6	1701.6	2128.4	1883.3
62.5°	*2220.9*	2324.4	1776.6	1675.1	1594.9
65°	*1964.8*	2080.6	1726.8	1328.4	974.0
67.5°	*1684.1*	1576.1	1377.6	935.8	985.0
70°	*1404.1*	1100.8	1058.7	1046.4	966.2
72.5°	*1116.3*	803.3	703.0	785.1	562.0
75°	*846.6*	829.8	728.2	476.0	507.0
77.5°	*587.2*	598.9	390.0	464.4	385.5
80°	*391.3*	338.9	353.1	296.2	292.3
82.5°	*271.0*	276.8	232.2	225.1	228.3
85°	*188.2*	167.5	163.6	156.5	155.2
87.5°	*62.7*	73.1	67.9	61.4	65.3
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)