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-LD5-30SE-W-UNV-L750-ED3-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 (P23760)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-30SE-W-UNV-L750-ED3-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:	32291.0 lumens
Efficiency:	N/A
Efficacy:	167.3 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.29 / 1.42
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	193
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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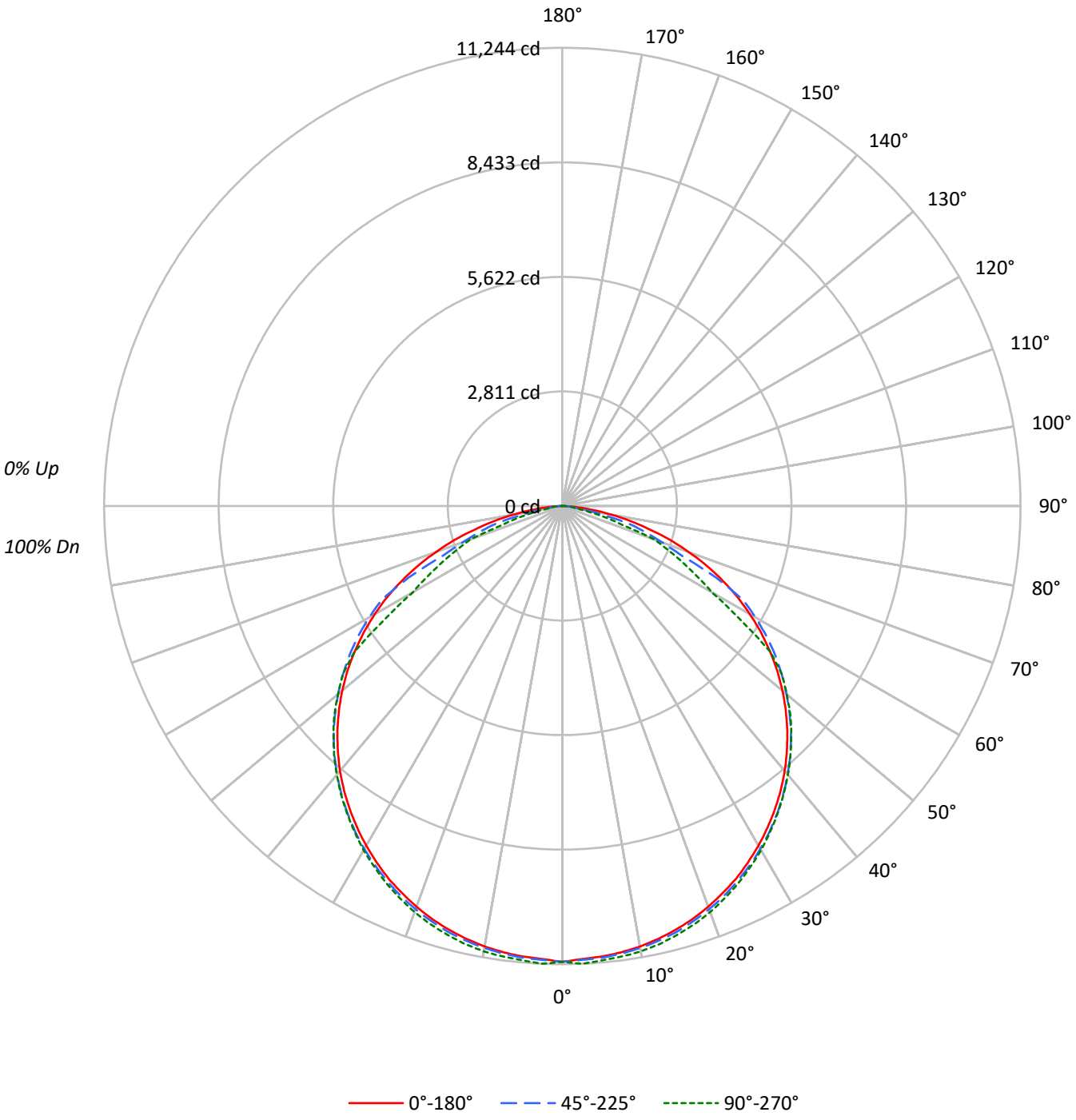
Luminous Intensity Polar Plot



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15050	15050	15050
5°	14988	15029	15114
10°	14996	15049	15163
15°	14992	15073	15177
20°	14984	15080	15186
25°	14979	15086	15170
30°	14953	15099	15155
35°	14934	15106	15126
40°	14907	15105	15129
45°	14851	15098	15116
50°	14762	15034	15032
55°	14590	14955	14584
60°	14319	14734	11411
65°	13841	13261	10280
70°	12967	10203	9475
75°	11482	8895	5905
80°	9455	5237	2639
85°	6231	3210	3457

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1061.4	3.3
10°-20°	3062.3	9.5
20°-30°	4694.9	14.5
30°-40°	5757.8	17.8
40°-50°	6113.9	18.9
50°-60°	5584.3	17.3
60°-70°	3888.9	12.0
70°-80°	1813.8	5.6
80°-90°	313.8	1.0
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°	8818.6	27.3
0°-40°	14576.5	45.1
0°-60°	26274.6	81.4
0°-90°	32291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11185	11185	11185	11185	11185	
5°	11097	11175	11128	11181	11191	###
15°	10763	10838	10821	10886	10896	3039
25°	10090	10178	10162	10237	10218	4650
35°	9092	9197	9197	9258	9209	5689
45°	7805	7923	7935	7986	7944	6019
55°	6220	6344	6375	6386	6217	5554
65°	4348	4482	4165	3312	3229	4290
75°	2209	2348	1711	1185	1136	2361
85°	404	266	208	223	224	521
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11185.3	11185.3	11185.3	11185.3	*11185.3*
2.5°	*11126.3*	*11197.4*	*11150.4*	*11201.4*	*11244.3*
5°	11096.8	11174.6	11127.6	11181.3	*11190.7*
7.5°	11048.5	11122.3	11079.4	11138.4	*11153.1*
10°	10976.1	11048.5	11015.0	11084.7	*11098.1*
12.5°	10878.2	10952.0	10926.5	11002.9	*11012.3*
15°	10762.9	10838.0	10820.6	10886.3	*10895.7*
17.5°	10627.5	10705.2	10685.1	10754.8	*10761.6*
20°	10465.2	10549.7	10532.2	10614.0	*10606.0*
22.5°	10282.8	10372.7	10359.3	10441.1	*10416.9*
25°	10089.7	10178.2	10162.1	10237.2	*10218.4*
27.5°	9863.1	9961.0	9946.2	10018.6	*9989.1*
30°	9624.4	9723.6	9718.3	9784.0	*9754.5*
32.5°	9366.9	9472.8	9467.5	9531.9	*9486.3*
35°	9092.0	9196.6	9196.6	9258.3	*9208.7*
37.5°	8801.0	8906.9	8908.3	8967.3	*8920.4*
40°	8487.2	8593.1	8599.9	8656.2	*8613.3*
42.5°	8157.3	8272.6	8278.0	8329.0	*8288.7*
45°	7804.6	7922.6	7934.7	7985.7	*7944.1*
47.5°	7435.9	7555.2	7565.9	7620.9	*7591.4*
50°	7052.3	7167.7	7182.4	7228.0	*7181.1*
52.5°	6647.4	6765.4	6785.5	6813.6	*6792.2*
55°	6219.6	6344.3	6375.1	6385.9	*6216.9*
57.5°	5777.0	5904.4	5933.9	5687.2	*5144.1*
60°	5321.1	5447.2	5475.3	4626.5	*4240.3*
62.5°	4846.4	4969.8	5000.6	3833.9	*3710.6*
65°	4347.5	4481.6	4165.2	3312.3	*3229.1*
67.5°	3835.3	3973.4	3150.0	2838.9	*2789.3*
70°	3296.2	3435.7	2593.5	2420.5	*2408.4*
72.5°	2778.6	2881.8	2128.2	1834.5	*1544.8*
75°	2208.6	2348.1	1711.1	1185.4	*1135.8*
77.5°	1712.5	1480.5	1032.6	869.0	*685.3*
80°	1220.3	989.7	675.9	360.7	*340.6*
82.5°	773.8	646.4	265.5	272.2	*284.3*
85°	403.6	265.5	207.9	222.6	*223.9*
87.5°	130.1	114.0	124.7	123.4	*122.0*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)