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-WG-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 (P33336)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-30SE-W-WG-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:	30580.0 lumens
Efficiency:	N/A
Efficacy:	158.4 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):	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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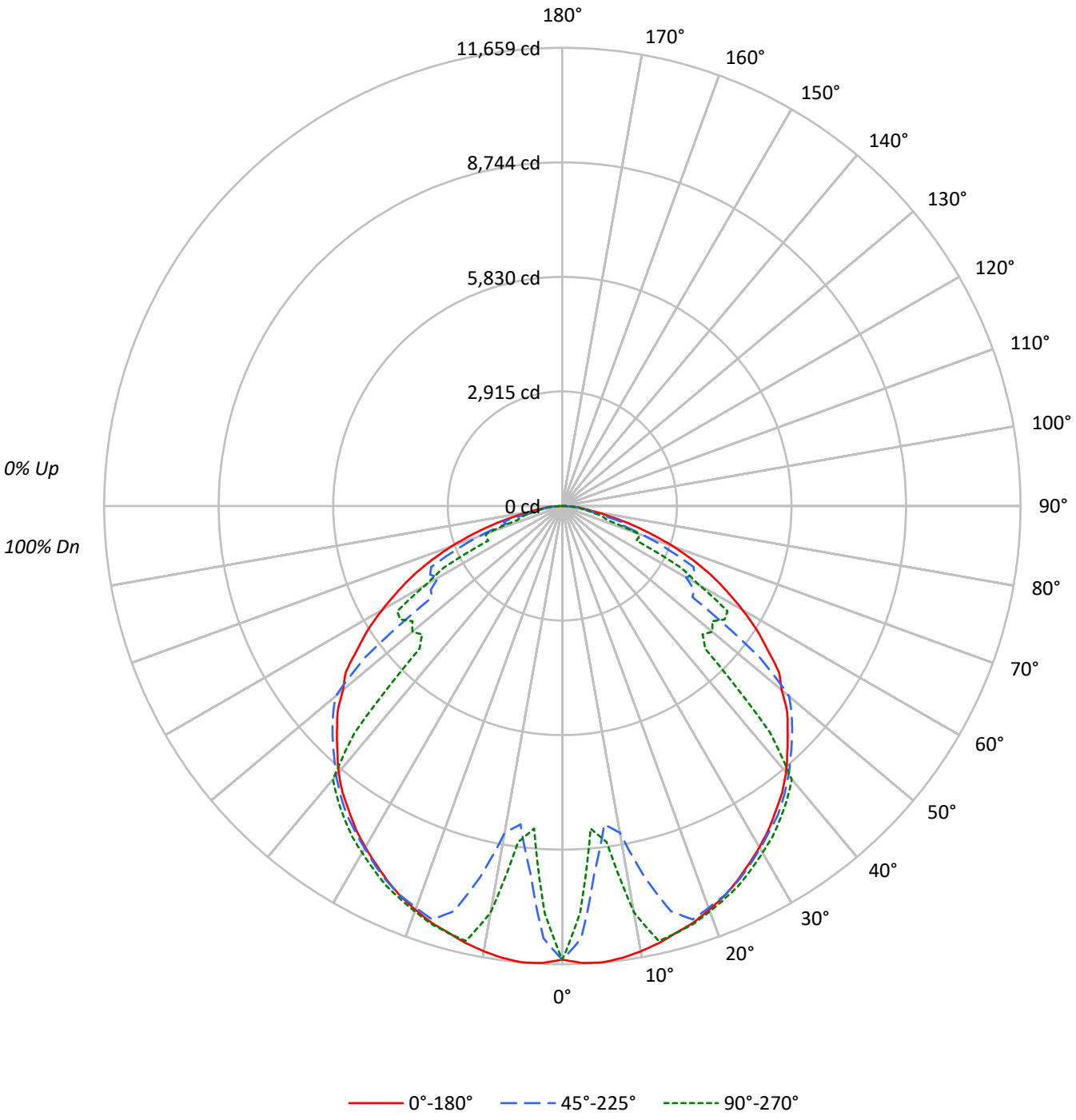
Luminous Intensity Polar Plot



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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	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°	15531	15531	15531
5°	15747	12650	11126
10°	15720	11537	14349
15°	15650	14869	15663
20°	15650	15579	15717
25°	15622	15657	15800
30°	15577	15628	15830
35°	15552	15725	15908
40°	15554	15724	15949
45°	15432	15734	9778
50°	15258	15766	10421
55°	14936	9480	11811
60°	14248	9772	10816
65°	13350	11733	6618
70°	11788	8889	8112
75°	9392	8080	5625
80°	6470	5839	4834
85°	6201	5391	5115

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	923.0	3.0
10°-20°	2891.7	9.5
20°-30°	4757.5	15.6
30°-40°	5981.9	19.6
40°-50°	5866.8	19.2
50°-60°	4860.9	15.9
60°-70°	3428.5	11.2
70°-80°	1495.8	4.9
80°-90°	373.7	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°	8572.3	28.0
0°-40°	14554.2	47.6
0°-60°	25281.9	82.7
0°-90°	30580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30580.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11543	11543	11543	11543	11543	
5°	11659	10852	9366	8493	8237	###
15°	11235	7802	10675	11279	11245	3177
25°	10523	9629	10546	10617	10643	4850
35°	9468	9463	9573	9637	9685	5932
45°	8110	8135	8269	7324	5139	6260
55°	6367	6576	4041	4595	5035	5697
65°	4193	4440	3685	2835	2079	4123
75°	1807	1771	1554	1016	1082	1938
85°	402	358	349	334	331	417
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*11543.0*	11543.0	11543.0	11543.0	11543.0
2.5°	*11638.2*	11396.7	11012.9	10529.9	10358.7
5°	*11658.9*	*10851.5*	*9366.3*	*8492.6*	*8237.3*
7.5°	*11599.5*	9861.8	8165.5	8349.1	8619.6
10°	*11505.7*	8992.3	8444.3	9935.0	10502.3
12.5°	*11385.6*	8219.3	9674.1	11222.7	11335.9
15°	*11235.2*	7802.5	10674.8	11279.3	11244.8
17.5°	*11108.2*	8046.8	11033.6	11166.2	11141.3
20°	*10930.1*	8534.0	10880.4	10986.7	10977.1
22.5°	*10750.7*	9111.0	10735.5	10811.4	10811.4
25°	*10523.0*	9628.6	10546.4	10616.8	10643.0
27.5°	*10273.1*	9926.7	10310.4	10368.4	10415.3
30°	*10026.1*	9969.5	10059.2	10133.7	10188.9
32.5°	*9765.2*	9743.1	9813.5	9892.2	9962.6
35°	*9468.5*	9462.9	9573.4	9636.8	9685.2
37.5°	*9189.6*	9170.3	9272.5	9360.8	9398.1
40°	*8855.6*	8855.6	8952.2	9042.0	9080.6
42.5°	*8474.7*	8528.5	8603.0	8695.5	7831.5
45°	*8110.3*	8135.1	8269.0	7323.6	5138.6
47.5°	*7759.7*	7791.5	7918.4	4708.0	4836.4
50°	*7289.1*	7432.6	7532.0	4694.2	4978.5
52.5°	*6945.4*	7007.5	6322.9	4647.3	4807.4
55°	*6367.1*	6575.5	4041.3	4594.8	5035.1
57.5°	*5872.9*	6024.8	3973.7	4708.0	4981.3
60°	*5294.6*	5526.5	3631.4	4542.4	4019.3
62.5°	*4739.7*	4960.6	3791.5	3574.8	3403.7
65°	*4193.2*	4440.2	3685.2	2835.0	2078.6
67.5°	*3594.1*	3363.6	2939.9	1997.2	2102.1
70°	*2996.5*	2349.2	2259.5	2233.2	2062.1
72.5°	*2382.3*	1714.3	1500.3	1675.6	1199.4
75°	*1806.7*	1770.8	1554.2	1015.9	1082.1
77.5°	*1253.3*	1278.1	832.3	991.0	822.6
80°	*835.0*	723.2	753.6	632.2	623.9
82.5°	*578.3*	590.7	495.5	480.3	487.2
85°	*401.7*	357.5	349.2	334.0	331.3
87.5°	*133.9*	156.0	144.9	131.1	139.4
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)