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-LD5-18SE-N-UNV-L750-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 (P23767)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-18SE-N-UNV-L750-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:	18862.0 lumens
Efficiency:	N/A
Efficacy:	154.9 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):	121.76
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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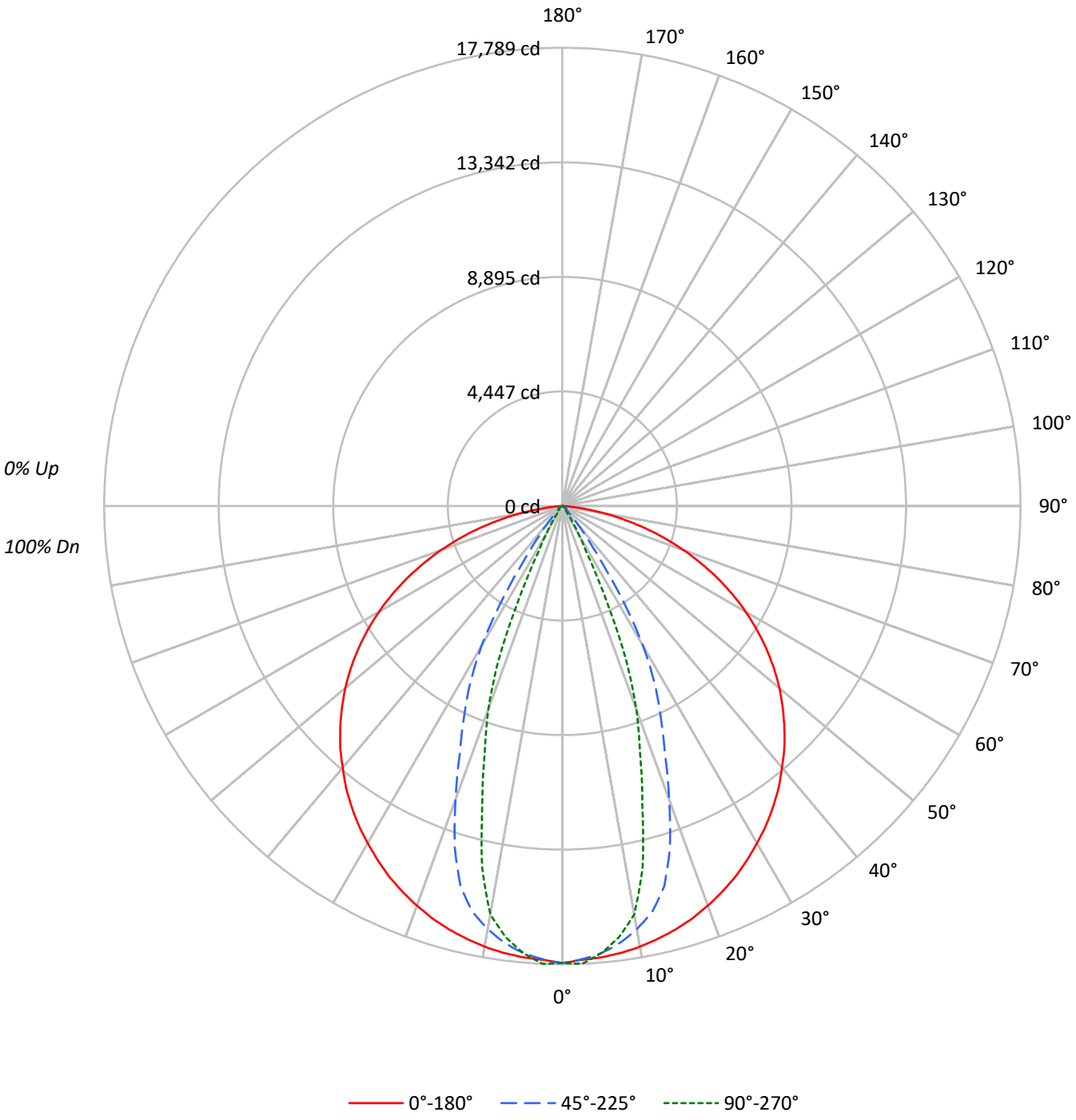
Luminous Intensity Polar Plot



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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°	23877	23877	23877
5°	23750	23540	23530
10°	23735	22786	21986
15°	23701	21287	16733
20°	23646	17353	12044
25°	23586	13418	5933
30°	23482	9752	1924
35°	23426	4326	495
40°	23304	1757	334
45°	23199	493	355
50°	23018	350	394
55°	22687	416	168
60°	22127	463	102
65°	21217	296	121
70°	19711	262	149
75°	17243	198	206
80°	12893	242	294
85°	6387	313	391

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1646.9	8.7
10°-20°	4118.0	21.8
20°-30°	4460.4	23.6
30°-40°	3303.1	17.5
40°-50°	2379.1	12.6
50°-60°	1473.1	7.8
60°-70°	906.0	4.8
70°-80°	477.6	2.5
80°-90°	97.7	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°	10225.3	54.2
0°-40°	13528.5	71.7
0°-60°	17380.7	92.1
0°-90°	18862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17746	17746	17746	17746	17746	
5°	17584	17649	17429	17442	17421	###
15°	17015	16620	15282	12996	12012	4803
25°	15887	14553	9038	5686	3996	7320
35°	14262	10055	2634	620	301	8923
45°	12192	5665	259	187	187	9403
55°	9671	1167	177	160	72	8634
65°	6664	123	93	59	38	6575
75°	3317	29	38	50	40	3503
85°	414	11	20	30	25	625
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17746.2	17746.2	17746.2	17746.2	*17746.2*
2.5°	*17632.3*	*17744.5*	*17612.0*	*17710.8*	*17789.3*
5°	17584.1	17649.1	17428.8	17441.5	*17421.2*
7.5°	17499.7	17484.5	17113.9	16951.8	*16880.9*
10°	17372.2	17271.8	16677.5	16338.9	*16092.4*
12.5°	17207.6	16983.1	16132.9	15056.6	*14387.9*
15°	17015.1	16620.0	15282.0	12995.8	*12012.3*
17.5°	16785.5	16225.8	13890.7	10892.1	*10014.1*
20°	16514.5	15786.0	12119.5	9266.9	*8411.8*
22.5°	16212.3	15250.7	10399.0	7701.8	*6481.9*
25°	15887.3	14552.6	9038.2	5685.8	*3996.5*
27.5°	15511.6	13655.2	7761.7	3349.0	*2039.6*
30°	15114.0	12574.6	6276.7	1801.6	*1238.5*
32.5°	14713.0	11349.6	4441.4	1125.3	*702.4*
35°	14262.2	10054.6	2633.9	619.7	*301.4*
37.5°	13791.9	8867.6	1556.7	282.0	*193.3*
40°	13267.7	7782.8	1000.4	187.4	*189.9*
42.5°	12761.1	6771.4	563.1	184.9	*188.3*
45°	12192.1	5664.7	259.2	187.4	*186.6*
47.5°	11603.7	4517.4	168.0	189.1	*189.1*
50°	10996.7	3230.0	167.2	193.3	*188.3*
52.5°	10356.0	2015.1	173.9	192.5	*154.5*
55°	9671.3	1166.7	177.3	160.4	*71.8*
57.5°	8962.2	688.0	179.0	92.0	*40.5*
60°	8222.6	380.7	172.2	68.4	*38.0*
62.5°	7460.3	181.5	135.9	64.2	*37.1*
65°	6664.2	123.3	92.9	59.1	*38.0*
67.5°	5837.7	95.4	73.4	55.7	*38.8*
70°	5010.4	70.9	66.7	55.7	*38.0*
72.5°	4169.6	48.1	55.7	56.6	*38.0*
75°	3316.9	28.7	38.0	49.8	*39.7*
77.5°	2471.9	17.7	29.5	51.5	*48.1*
80°	1663.9	15.2	31.2	48.1	*38.0*
82.5°	976.8	13.5	30.4	37.1	*30.4*
85°	413.7	11.0	20.3	30.4	*25.3*
87.5°	77.7	9.3	16.0	24.5	*21.9*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)