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-LD5-60SE-W-UNV-L750-ED4-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-LD5-60SE-W-UNV-L750-ED4-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:	62380.0 lumens
Efficiency:	N/A
Efficacy:	161.6 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):	386
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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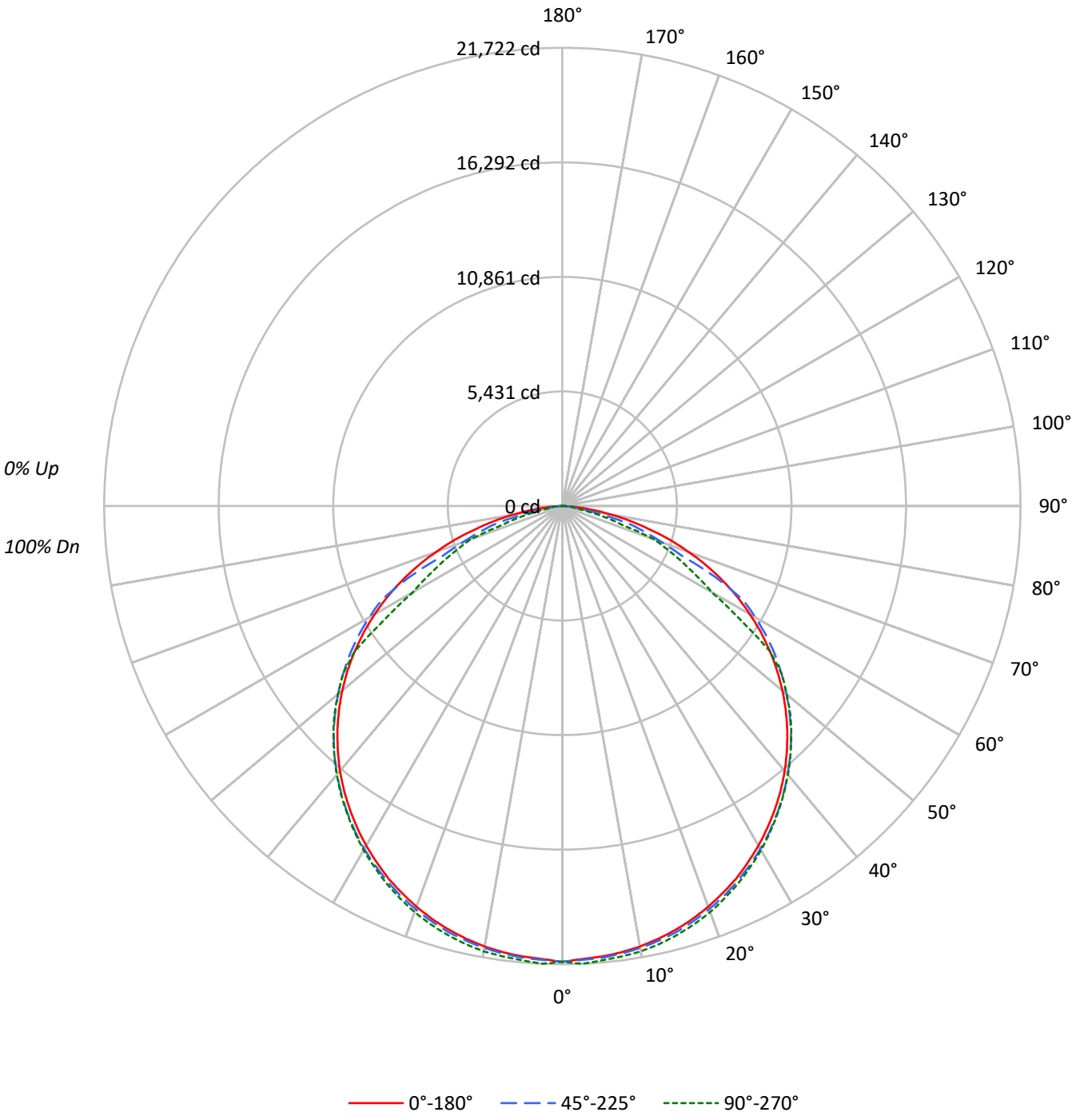
Luminous Intensity Polar Plot



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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°	29073	29073	29073
5°	28953	29034	29198
10°	28969	29072	29292
15°	28962	29117	29319
20°	28947	29133	29337
25°	28937	29144	29306
30°	28886	29168	29276
35°	28850	29182	29220
40°	28798	29180	29225
45°	28689	29167	29201
50°	28517	29043	29038
55°	28185	28890	28172
60°	27661	28463	22043
65°	26739	25617	19860
70°	25050	19709	18303
75°	22181	17184	11407
80°	18266	10116	5098
85°	12038	6198	6678

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2050.5	3.3
10°-20°	5915.8	9.5
20°-30°	9069.7	14.5
30°-40°	11123.0	17.8
40°-50°	11810.8	18.9
50°-60°	10787.7	17.3
60°-70°	7512.6	12.0
70°-80°	3503.9	5.6
80°-90°	606.1	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°	17035.9	27.3
0°-40°	28158.9	45.1
0°-60°	50757.4	81.4
0°-90°	62380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	62380.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21608	21608	21608	21608	21608	
5°	21437	21587	21496	21600	21618	###
15°	20792	20937	20903	21030	21048	5871
25°	19491	19662	19631	19776	19740	8982
35°	17564	17766	17766	17885	17789	10991
45°	15077	15305	15328	15427	15346	11628
55°	12015	12256	12316	12336	12010	10730
65°	8399	8658	8046	6399	6238	8287
75°	4267	4536	3306	2290	2194	4561
85°	780	513	402	430	433	###
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21607.9	21607.9	21607.9	21607.9	*21607.9*
2.5°	*21493.9*	*21631.2*	*21540.5*	*21639.0*	*21721.8*
5°	21436.9	21587.1	21496.5	21600.1	*21618.2*
7.5°	21343.6	21486.1	21403.2	21517.2	*21545.7*
10°	21203.7	21343.6	21278.9	21413.6	*21439.5*
12.5°	21014.6	21157.1	21107.9	21255.5	*21273.7*
15°	20791.8	20936.9	20903.2	21030.2	*21048.3*
17.5°	20530.2	20680.4	20641.6	20776.3	*20789.2*
20°	20216.7	20379.9	20346.3	20504.3	*20488.7*
22.5°	19864.4	20038.0	20012.1	20170.1	*20123.5*
25°	19491.4	19662.4	19631.3	19776.3	*19740.1*
27.5°	19053.6	19242.7	19214.2	19354.1	*19297.1*
30°	18592.5	18784.2	18773.8	18900.7	*18843.7*
32.5°	18095.1	18299.7	18289.4	18413.7	*18325.6*
35°	17564.0	17766.1	17766.1	17885.2	*17789.4*
37.5°	17001.8	17206.5	17209.1	17323.1	*17232.4*
40°	16395.7	16600.3	16613.3	16722.1	*16639.2*
42.5°	15758.4	15981.2	15991.5	16090.0	*16012.3*
45°	15077.1	15305.0	15328.3	15426.8	*15346.5*
47.5°	14364.7	14595.2	14615.9	14722.2	*14665.2*
50°	13623.8	13846.5	13875.0	13963.1	*13872.5*
52.5°	12841.4	13069.4	13108.2	13162.6	*13121.2*
55°	12015.0	12255.9	12315.5	12336.2	*12009.8*
57.5°	11160.1	11406.2	11463.2	10986.6	*9937.4*
60°	10279.3	10522.9	10577.3	8937.4	*8191.4*
62.5°	9362.3	9600.6	9660.2	7406.4	*7168.1*
65°	8398.6	8657.7	8046.3	6398.7	*6238.1*
67.5°	7409.0	7675.8	6085.2	5484.2	*5388.4*
70°	6367.6	6637.0	5010.1	4676.0	*4652.6*
72.5°	5367.6	5567.1	4111.2	3543.9	*2984.3*
75°	4266.7	4536.1	3305.6	2290.1	*2194.2*
77.5°	3308.1	2860.0	1994.7	1678.7	*1323.8*
80°	2357.4	1911.8	1305.6	696.9	*658.0*
82.5°	1494.8	1248.7	512.9	525.9	*549.2*
85°	779.8	512.9	401.5	430.0	*432.6*
87.5°	251.3	220.2	240.9	238.3	*235.7*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)