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-LD5-12SE-N-CL-UNV-L840-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 (P23768)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-12SE-N-CL-UNV-L840-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:	10197.0 lumens
Efficiency:	N/A
Efficacy:	133.1 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 0.63 / 0.78
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	76.6
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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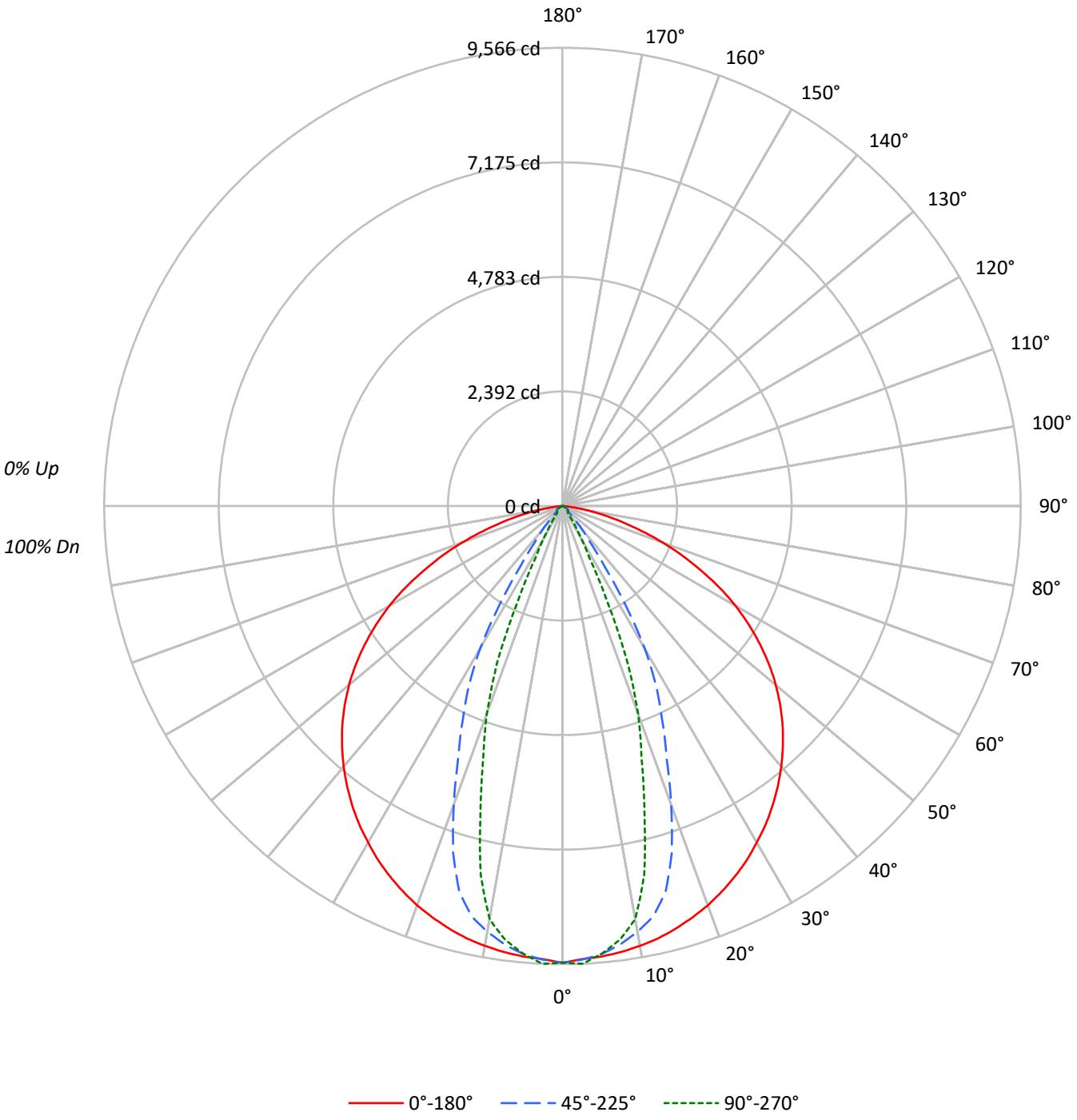
Luminous Intensity Polar Plot



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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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12829	12829	12829
5°	12750	12683	12674
10°	12741	12333	11969
15°	12726	11597	9203
20°	12702	9490	6601
25°	12662	7312	3354
30°	12602	5336	1220
35°	12557	2451	425
40°	12480	1112	293
45°	12369	415	297
50°	12171	301	313
55°	11811	317	238
60°	11224	339	210
65°	10179	258	171
70°	8727	186	157
75°	6671	165	150
80°	4173	155	163
85°	1318	181	218

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	887.7	8.7
10°-20°	2236.1	21.9
20°-30°	2435.2	23.9
30°-40°	1821.6	17.9
40°-50°	1309.8	12.8
50°-60°	804.4	7.9
60°-70°	462.9	4.5
70°-80°	206.6	2.0
80°-90°	32.8	0.3
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°	5558.9	54.5
0°-40°	7380.5	72.4
0°-60°	9494.8	93.1
0°-90°	10197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9534	9534	9534	9534	9534	
5°	9440	9484	9390	9399	9384	898
15°	9136	8961	8326	7150	6607	2579
25°	8529	7917	4925	3160	2259	3932
35°	7645	5483	1492	439	259	4782
45°	6500	3081	218	162	156	5008
55°	5035	640	135	131	102	4489
65°	3197	70	81	67	54	3165
75°	1283	42	32	33	29	1392
85°	85	8	12	15	14	170
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9534.5	9534.5	9534.5	9534.5	*9534.5*
2.5°	*9468.1*	*9530.1*	*9477.9*	*9524.7*	*9566.2*
5°	9439.8	9484.2	9390.5	9399.3	*9383.7*
7.5°	9391.0	9401.8	9232.5	9167.1	*9135.4*
10°	9325.6	9296.9	9026.6	8870.9	*8760.2*
12.5°	9243.2	9148.1	8770.4	8214.7	*7883.4*
15°	9136.3	8961.2	8325.5	7150.1	*6606.6*
17.5°	9009.0	8766.0	7588.7	5959.2	*5488.8*
20°	8870.9	8550.4	6628.1	5066.8	*4610.1*
22.5°	8708.0	8274.7	5680.6	4214.0	*3587.0*
25°	8528.9	7917.1	4925.3	3160.1	*2259.4*
27.5°	8335.7	7445.3	4226.2	1937.9	*1221.7*
30°	8111.3	6871.0	3434.8	1087.5	*785.5*
32.5°	7892.2	6201.6	2453.6	724.5	*502.0*
35°	7644.8	5483.0	1492.0	438.6	*258.6*
37.5°	7382.8	4829.7	933.8	238.6	*178.6*
40°	7105.2	4210.1	633.3	169.3	*166.9*
42.5°	6808.6	3649.5	396.7	161.0	*166.4*
45°	6500.2	3080.6	218.1	161.5	*156.1*
47.5°	6165.5	2462.9	152.2	152.7	*152.2*
50°	5814.7	1766.7	143.9	150.8	*149.3*
52.5°	5436.6	1096.8	144.4	147.3	*132.2*
55°	5035.1	640.1	135.1	130.8	*101.5*
57.5°	4613.1	399.1	132.2	107.8	*91.2*
60°	4171.0	210.8	125.9	97.1	*78.1*
62.5°	3700.2	103.9	101.0	82.9	*63.9*
65°	3197.2	70.3	81.0	67.3	*53.7*
67.5°	2711.2	63.4	61.0	55.1	*46.8*
70°	2218.5	58.1	47.3	48.3	*40.0*
72.5°	1735.0	52.7	38.1	41.5	*33.7*
75°	1283.2	42.4	31.7	32.7	*28.8*
77.5°	892.8	33.2	24.9	27.8	*26.8*
80°	538.6	21.0	20.0	22.9	*21.0*
82.5°	261.0	13.7	15.6	18.1	*16.6*
85°	85.4	8.3	11.7	15.1	*14.1*
87.5°	10.7	4.9	9.8	13.2	*12.2*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)