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-W-WG-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 (P33336)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-12SE-W-WG-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:	11960.0 lumens
Efficiency:	N/A
Efficacy:	156.1 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):	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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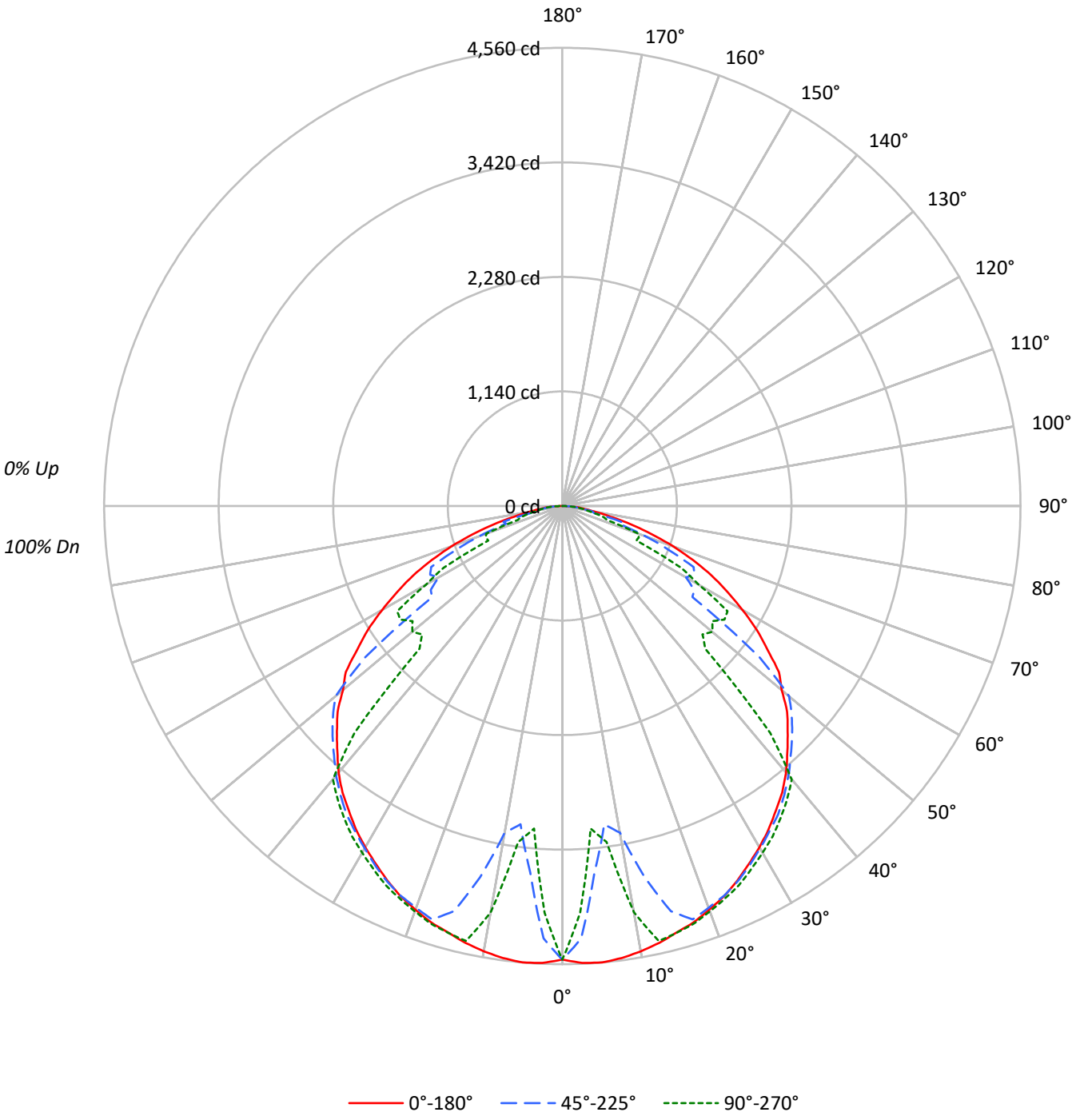
Luminous Intensity Polar Plot



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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	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°	6074	6074	6074
5°	6159	4948	4351
10°	6148	4512	5612
15°	6121	5816	6126
20°	6121	6093	6147
25°	6110	6124	6180
30°	6092	6112	6191
35°	6083	6150	6222
40°	6083	6150	6238
45°	6036	6154	3824
50°	5967	6166	4076
55°	5841	3708	4620
60°	5572	3822	4230
65°	5221	4589	2588
70°	4610	3476	3173
75°	3673	3160	2200
80°	2531	2283	1891
85°	2425	2109	2001

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.0	3.0
10°-20°	1131.0	9.5
20°-30°	1860.7	15.6
30°-40°	2339.6	19.6
40°-50°	2294.5	19.2
50°-60°	1901.1	15.9
60°-70°	1340.9	11.2
70°-80°	585.0	4.9
80°-90°	146.2	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°	3352.7	28.0
0°-40°	5692.2	47.6
0°-60°	9887.9	82.7
0°-90°	11960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4514	4514	4514	4514	4514	
5°	4560	4244	3663	3322	3222	433
15°	4394	3052	4175	4411	4398	1243
25°	4116	3766	4125	4152	4162	1897
35°	3703	3701	3744	3769	3788	2320
45°	3172	3182	3234	2864	2010	2448
55°	2490	2572	1581	1797	1969	2228
65°	1640	1737	1441	1109	813	1612
75°	707	693	608	397	423	758
85°	157	140	137	131	130	163
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*4514.5*	4514.5	4514.5	4514.5	4514.5
2.5°	*4551.8*	4457.3	4307.2	4118.3	4051.3
5°	*4559.9*	*4244.1*	*3663.2*	*3321.5*	*3221.6*
7.5°	*4536.6*	3857.0	3193.6	3265.4	3371.2
10°	*4499.9*	3516.9	3302.6	3885.6	4107.5
12.5°	*4453.0*	3214.6	3783.6	4389.3	4433.5
15°	*4394.1*	3051.6	4175.0	4411.4	4397.9
17.5°	*4344.5*	3147.1	4315.3	4367.1	4357.4
20°	*4274.8*	3337.7	4255.4	4297.0	4293.2
22.5°	*4204.7*	3563.3	4198.7	4228.4	4228.4
25°	*4115.6*	3765.8	4124.8	4152.3	4162.5
27.5°	*4017.9*	3882.4	4032.5	4055.1	4073.5
30°	*3921.2*	3899.1	3934.2	3963.4	3984.9
32.5°	*3819.2*	3810.6	3838.1	3868.9	3896.4
35°	*3703.2*	3701.0	3744.2	3769.0	3787.9
37.5°	*3594.1*	3586.6	3626.5	3661.1	3675.6
40°	*3463.5*	3463.5	3501.3	3536.4	3551.5
42.5°	*3314.5*	3335.5	3364.7	3400.9	3062.9
45°	*3172.0*	3181.7	3234.1	2864.3	2009.7
47.5°	*3034.9*	3047.3	3096.9	1841.3	1891.5
50°	*2850.8*	2906.9	2945.8	1835.9	1947.1
52.5°	*2716.4*	2740.7	2472.9	1817.6	1880.2
55°	*2490.2*	2571.7	1580.6	1797.1	1969.3
57.5°	*2296.9*	2356.3	1554.1	1841.3	1948.2
60°	*2070.7*	2161.4	1420.3	1776.5	1572.0
62.5°	*1853.7*	1940.1	1482.9	1398.1	1331.2
65°	*1640.0*	1736.6	1441.3	1108.8	813.0
67.5°	*1405.7*	1315.5	1149.8	781.1	822.1
70°	*1171.9*	918.8	883.7	873.4	806.5
72.5°	*931.7*	670.5	586.8	655.3	469.1
75°	*706.6*	692.6	607.8	397.3	423.2
77.5°	*490.2*	499.9	325.5	387.6	321.7
80°	*326.6*	282.9	294.7	247.2	244.0
82.5°	*226.2*	231.0	193.8	187.9	190.6
85°	*157.1*	139.8	136.6	130.6	129.6
87.5°	*52.4*	61.0	56.7	51.3	54.5
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)