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-CLI-UNV-L735-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 (P23766)
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-CLI-UNV-L735-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:	53044.0 lumens
Efficiency:	N/A
Efficacy:	137.4 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.27 / 1.37
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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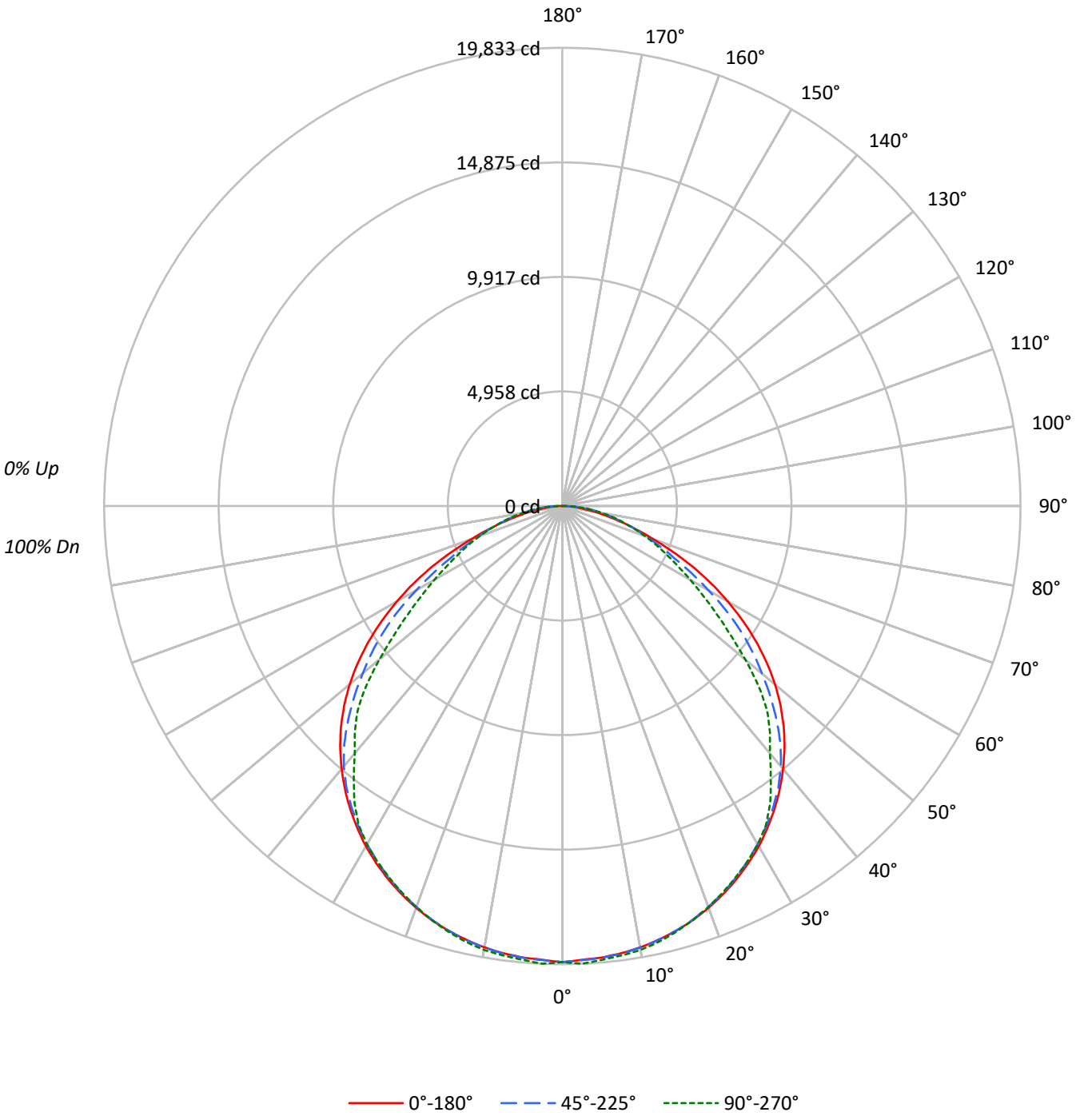
Luminous Intensity Polar Plot



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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	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26564	26564	26564
5°	26493	26512	26631
10°	26508	26521	26660
15°	26511	26508	26570
20°	26505	26443	26450
25°	26464	26365	26334
30°	26421	26262	26277
35°	26298	26134	25764
40°	26110	25843	24541
45°	25779	24953	23862
50°	25158	23625	21611
55°	24013	22095	19109
60°	22285	19714	17233
65°	19808	17069	15846
70°	16438	15254	14937
75°	13295	13960	14133
80°	10559	13351	13296
85°	8270	14343	13684

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1872.4	3.5
10°-20°	5385.6	10.2
20°-30°	8212.1	15.5
30°-40°	9935.5	18.7
40°-50°	10063.8	19.0
50°-60°	8317.9	15.7
60°-70°	5493.8	10.4
70°-80°	2864.7	5.4
80°-90°	898.1	1.7
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°	15470.1	29.2
0°-40°	25405.6	47.9
0°-60°	43787.3	82.5
0°-90°	53044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	53044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19743	19743	19743	19743	19743	
5°	19615	19734	19630	19715	19717	###
15°	19032	19129	19030	19089	19075	5374
25°	17826	17897	17760	17804	17738	8219
35°	16010	16032	15911	15889	15686	10014
45°	13548	13512	13114	12706	12540	10432
55°	10237	10085	9419	8504	8146	9124
65°	6222	6042	5361	5013	4977	6145
75°	2557	2602	2685	2721	2719	2786
85°	536	690	929	922	886	650
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19743.3	19743.3	19743.3	19743.3	*19743.3*
2.5°	*19660.3*	*19776.5*	*19679.3*	*19764.6*	*19833.3*
5°	19615.3	19733.8	19629.5	19714.8	*19717.2*
7.5°	19527.6	19646.1	19539.4	19624.8	*19622.4*
10°	19402.0	19513.4	19411.5	19513.4	*19513.4*
12.5°	19231.3	19340.4	19240.8	19335.6	*19321.4*
15°	19032.2	19129.4	19029.9	19089.1	*19074.9*
17.5°	18797.6	18885.3	18773.9	18823.7	*18795.2*
20°	18510.8	18591.4	18468.1	18532.1	*18472.9*
22.5°	18188.5	18264.3	18138.7	18186.1	*18119.7*
25°	17825.8	17896.9	17759.5	17804.5	*17738.1*
27.5°	17434.8	17498.8	17344.7	17399.2	*17347.1*
30°	17005.8	17036.6	16903.8	16975.0	*16913.3*
32.5°	16527.0	16546.0	16429.8	16493.8	*16389.5*
35°	16010.3	16031.6	15910.8	15889.4	*15685.6*
37.5°	15458.1	15467.5	15353.8	15161.8	*14825.2*
40°	14865.5	14860.8	14713.8	14270.6	*13972.0*
42.5°	14232.7	14230.3	13972.0	13467.1	*13296.5*
45°	13547.7	13512.2	13114.0	12706.3	*12540.4*
47.5°	12813.0	12775.1	12218.1	11893.4	*11516.5*
50°	12019.0	11952.6	11286.6	10843.4	*10324.3*
52.5°	11163.4	11061.4	10383.6	9667.8	*9177.2*
55°	10236.6	10085.0	9418.9	8504.1	*8146.2*
57.5°	9272.0	9046.8	8399.8	7508.6	*7217.1*
60°	8281.3	8030.0	7326.1	6593.7	*6404.1*
62.5°	7262.1	7013.2	6295.1	5742.9	*5638.6*
65°	6221.6	6041.5	5361.3	5012.8	*4977.3*
67.5°	5155.1	5091.1	4572.0	4394.2	*4380.0*
70°	4178.6	4166.7	3877.6	3787.5	*3797.0*
72.5°	3339.5	3325.3	3282.6	3237.6	*3240.0*
75°	2557.4	2602.4	2685.4	2720.9	*2718.6*
77.5°	1908.0	2000.4	2175.8	2246.9	*2235.0*
80°	1362.8	1500.3	1723.1	1789.5	*1716.0*
82.5°	907.8	1052.3	1315.4	1324.9	*1265.7*
85°	535.7	689.7	929.1	922.0	*886.4*
87.5°	265.5	414.8	557.0	533.3	*509.6*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)