

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-LD5-30SE-W-AWG-UNV-L750-ED3-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.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23764)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30SE-W-AWG-UNV-L750-ED3-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: 28093.0 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

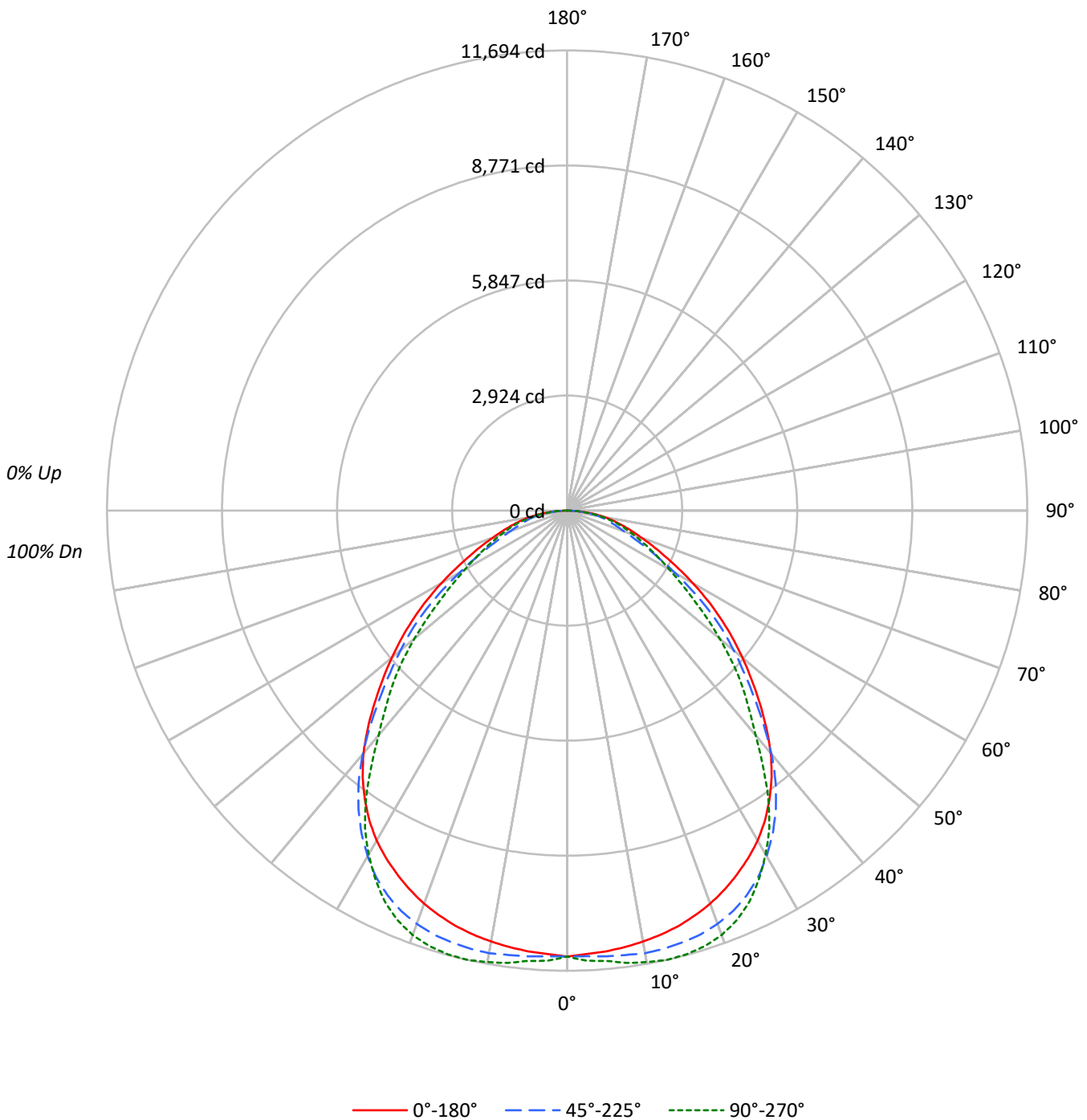
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88					86				
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57					55				
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50					48				
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44					42				
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40					38				
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15248	15248	15248
5°	15189	15359	15515
10°	15193	15605	15919
15°	15222	15822	16267
20°	15219	16003	16433
25°	15153	16024	16284
30°	15041	15757	15674
35°	14722	15187	14634
40°	14146	14187	13083
45°	13167	12790	11960
50°	12171	11566	10598
55°	11141	10250	9145
60°	9935	8508	8076
65°	8713	7002	7420
70°	7867	6031	7065
75°	7519	5911	7046
80°	7579	6258	6874
85°	6714	5732	6001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1088.6	3.9
10°-20°	3208.1	11.4
20°-30°	4920.7	17.5
30°-40°	5659.6	20.1
40°-50°	5161.9	18.4
50°-60°	3868.9	13.8
60°-70°	2379.9	8.5
70°-80°	1363.8	4.9
80°-90°	441.5	1.6
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°	9217.4	32.8
0°-40°	14877.0	53.0
0°-60°	23907.8	85.1
0°-90°	28093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11332	11332	11332	11332	11332	
5°	11246	11360	11372	11465	11487	###
15°	10928	11171	11358	11601	11678	3085
25°	10207	10500	10794	10960	10968	4703
35°	8963	9138	9246	9094	8909	5590
45°	6920	7070	6722	6375	6285	5340
55°	4749	4573	4369	3984	3898	4243
65°	2737	2448	2199	2267	2331	2752
75°	1446	1296	1137	1302	1355	1547
85°	435	410	371	392	389	485
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11332.5	11332.5	11332.5	11332.5	<i>11332.5</i>
2.5°	11279.0	11359.9	11333.9	11400.4	<i>11449.5</i>
5°	11245.8	11359.9	11371.5	11465.4	<i>11487.1</i>
7.5°	11189.4	11338.3	11390.3	11556.4	<i>11594.0</i>
10°	11120.1	11299.3	11422.1	11601.2	<i>11651.8</i>
12.5°	<i>11036.3</i>	<i>11244.3</i>	<i>11400.4</i>	<i>11621.5</i>	<i>11693.7</i>
15°	10927.9	11170.7	11358.5	11601.2	<i>11677.8</i>
17.5°	10790.6	11072.4	11292.0	11530.4	<i>11609.9</i>
20°	10628.8	10926.5	11176.4	11420.6	<i>11477.0</i>
22.5°	10433.7	10732.8	11017.5	11237.1	<i>11267.5</i>
25°	10206.9	10500.2	10793.5	10959.7	<i>10968.4</i>
27.5°	9959.8	10232.9	10507.4	10597.0	<i>10558.0</i>
30°	9680.9	9925.1	10141.9	10160.7	<i>10088.4</i>
32.5°	9350.1	9569.7	9724.3	9683.8	<i>9562.5</i>
35°	8962.8	9137.7	9246.0	9094.3	<i>8909.4</i>
37.5°	8538.0	8669.5	8705.6	8376.2	<i>8165.2</i>
40°	8054.0	8166.7	8077.1	7619.0	<i>7448.5</i>
42.5°	7496.2	7626.3	7396.5	6944.3	<i>6840.2</i>
45°	6919.7	7070.0	6721.8	6375.0	<i>6285.4</i>
47.5°	6354.7	6492.0	6097.6	5818.7	<i>5685.7</i>
50°	5814.3	5873.6	5525.4	5210.4	<i>5063.0</i>
52.5°	5282.6	5223.4	4976.3	4584.7	<i>4454.7</i>
55°	4749.4	4573.2	4369.4	3983.6	<i>3898.4</i>
57.5°	4214.8	3969.2	3746.7	3450.5	<i>3417.2</i>
60°	3691.8	3389.8	3161.5	2985.2	<i>3001.1</i>
62.5°	3193.3	2885.5	2641.3	2585.0	<i>2645.6</i>
65°	2736.7	2447.7	2199.2	2267.1	<i>2330.7</i>
67.5°	2356.7	2079.2	1826.4	1999.8	<i>2050.3</i>
70°	1999.8	1775.8	1533.1	1757.0	<i>1796.0</i>
72.5°	1715.1	1524.4	1313.4	1531.6	<i>1564.8</i>
75°	1446.4	1296.1	1137.1	1301.9	<i>1355.3</i>
77.5°	1212.3	1088.0	979.7	1076.5	<i>1134.3</i>
80°	978.2	872.7	807.7	851.1	<i>887.2</i>
82.5°	716.7	648.8	601.1	619.9	<i>625.6</i>
85°	434.9	410.4	371.3	391.6	<i>388.7</i>
87.5°	143.0	163.3	171.9	154.6	<i>145.9</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)