

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-L850-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-L850-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

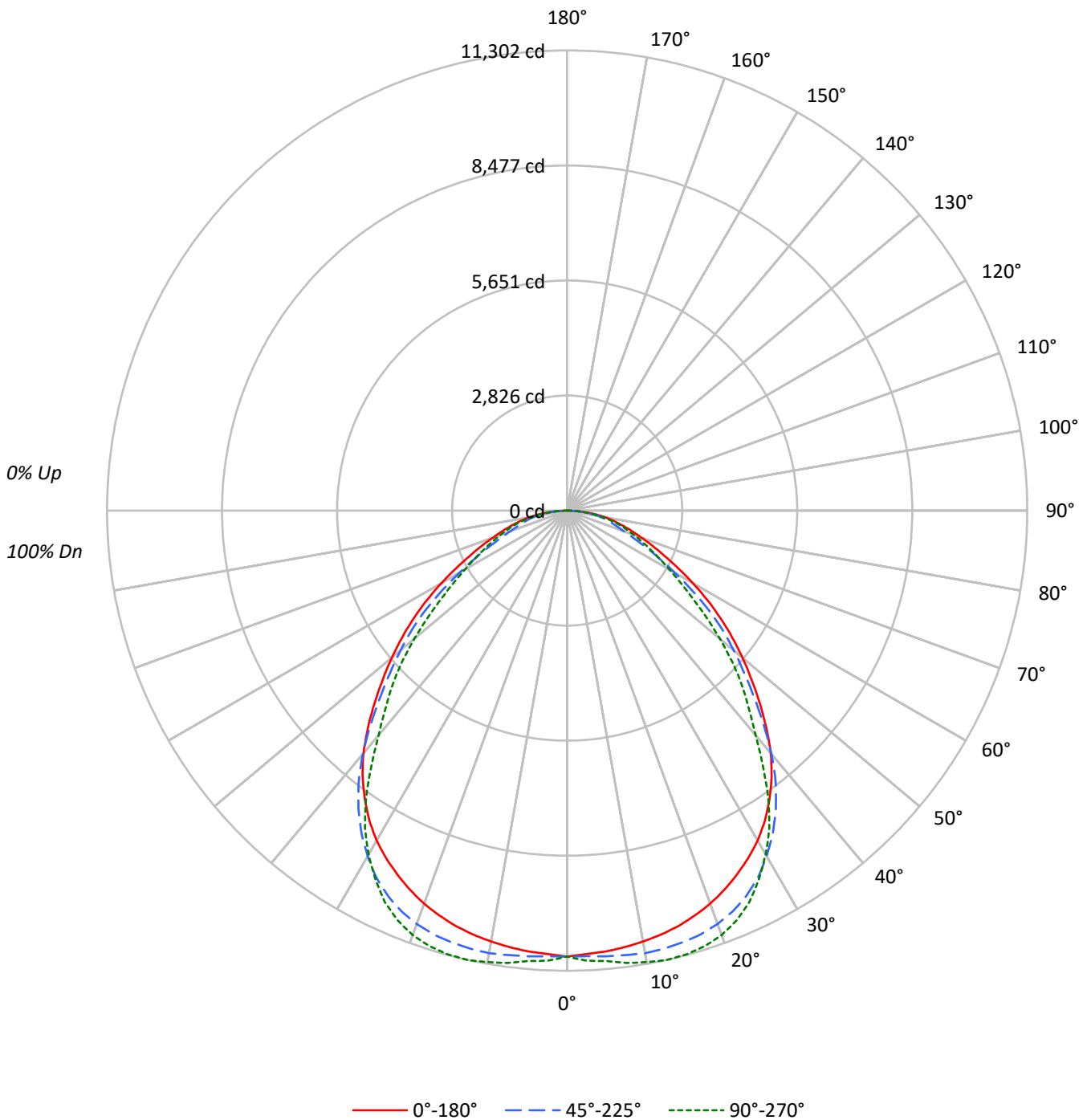
Lumens per Lamp: N/A
Luminaire Lumens: 27152.0 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	14737	14737	14737
5°	14680	14844	14995
10°	14684	15083	15386
15°	14712	15292	15722
20°	14709	15467	15883
25°	14645	15487	15738
30°	14537	15229	15149
35°	14229	14678	14144
40°	13672	13711	12645
45°	12726	12362	11559
50°	11763	11178	10243
55°	10768	9907	8838
60°	9602	8223	7805
65°	8421	6767	7172
70°	7604	5829	6829
75°	7267	5714	6810
80°	7325	6049	6644
85°	6490	5541	5800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1052.1	3.9
10°-20°	3100.6	11.4
20°-30°	4755.9	17.5
30°-40°	5470.0	20.1
40°-50°	4989.0	18.4
50°-60°	3739.3	13.8
60°-70°	2300.1	8.5
70°-80°	1318.1	4.9
80°-90°	426.8	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°	8908.7	32.8
0°-40°	14378.7	53.0
0°-60°	23107.0	85.1
0°-90°	27152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10953	10953	10953	10953	10953	
5°	10869	10979	10991	11081	11102	###
15°	10562	10796	10978	11213	11287	2981
25°	9865	10148	10432	10593	10601	4546
35°	8663	8832	8936	8790	8611	5402
45°	6688	6833	6497	6161	6075	5161
55°	4590	4420	4223	3850	3768	4101
65°	2645	2366	2126	2191	2253	2660
75°	1398	1253	1099	1258	1310	1495
85°	420	397	359	378	376	469
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10952.9	10952.9	10952.9	10952.9	10952.9
2.5°	10901.2	10979.4	10954.3	11018.5	11066.0
5°	10869.1	10979.4	10990.6	11081.4	11102.3
7.5°	10814.6	10958.5	11008.8	11169.4	11205.7
10°	10747.6	10920.8	11039.5	11212.6	11261.5
12.5°	10666.6	10867.7	11018.5	11232.2	11302.0
15°	10561.9	10796.5	10978.0	11212.6	11286.7
17.5°	10429.2	10701.5	10913.8	11144.2	11221.0
20°	10272.8	10560.5	10802.1	11038.1	11092.5
22.5°	10084.3	10373.3	10648.5	10860.7	10890.1
25°	9865.0	10148.5	10432.0	10592.6	10601.0
27.5°	9626.2	9890.1	10155.5	10242.1	10204.4
30°	9356.7	9592.7	9802.2	9820.3	9750.5
32.5°	9036.9	9249.1	9398.6	9359.5	9242.2
35°	8662.6	8831.6	8936.3	8789.7	8610.9
37.5°	8252.0	8379.1	8414.0	8095.6	7891.7
40°	7784.2	7893.1	7806.5	7363.8	7199.1
42.5°	7245.1	7370.8	7148.8	6711.7	6611.1
45°	6687.9	6833.2	6496.6	6161.4	6074.9
47.5°	6141.9	6274.6	5893.3	5623.8	5495.3
50°	5619.6	5676.8	5340.3	5035.8	4893.4
52.5°	5105.7	5048.4	4809.6	4431.2	4305.5
55°	4590.4	4420.0	4223.1	3850.2	3767.8
57.5°	4073.6	3836.2	3621.2	3334.9	3302.8
60°	3568.1	3276.2	3055.6	2885.2	2900.6
62.5°	3086.3	2788.8	2552.8	2498.4	2557.0
65°	2645.0	2365.7	2125.5	2191.1	2252.6
67.5°	2277.7	2009.6	1765.2	1932.8	1981.7
70°	1932.8	1716.3	1481.7	1698.2	1735.9
72.5°	1657.7	1473.3	1269.4	1480.3	1512.4
75°	1397.9	1252.7	1099.1	1258.3	1309.9
77.5°	1171.7	1051.6	946.8	1040.4	1096.3
80°	945.4	843.5	780.7	822.5	857.5
82.5°	692.7	627.0	581.0	599.1	604.7
85°	420.4	396.6	358.9	378.5	375.7
87.5°	138.3	157.8	166.2	149.4	141.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)