

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-N-CLWG-UNV-L835-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30SE-N-CLWG-UNV-L835-ED3-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

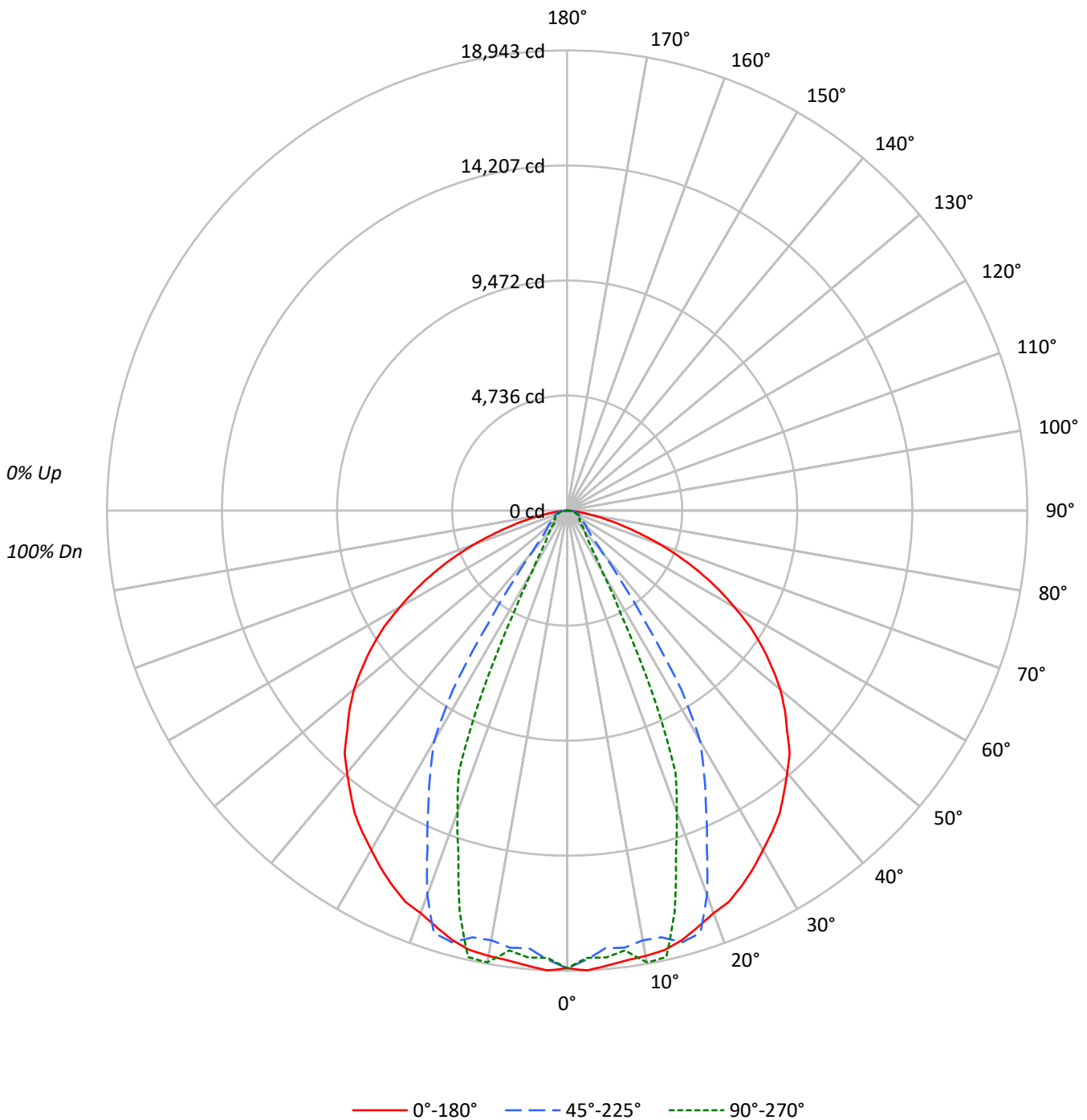
Lumens per Lamp: N/A
Luminaire Lumens: 25328.0 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 193
Input Voltage (V): NR
Input Current (A_{in}): 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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25349	25349	25349
5°	25391	24424	24939
10°	25428	24542	25801
15°	25485	25618	23810
20°	25244	24095	18899
25°	25280	20087	12345
30°	25053	17017	4435
35°	25027	9218	2494
40°	24744	4019	1954
45°	24361	2484	1532
50°	23981	2164	1446
55°	23039	1876	1415
60°	21376	1681	1520
65°	19214	1900	1662
70°	16114	2043	1713
75°	12047	2330	1855
80°	7566	2706	2115
85°	5037	3392	3097



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1746.2	6.9
10°-20°	4931.0	19.5
20°-30°	6038.1	23.8
30°-40°	4741.8	18.7
40°-50°	3516.3	13.9
50°-60°	2140.7	8.5
60°-70°	1282.3	5.1
70°-80°	703.5	2.8
80°-90°	228.2	0.9
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°	12715.3	50.2
0°-40°	17457.1	68.9
0°-60°	23114.0	91.3
0°-90°	25328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25328.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18840	18840	18840	18840	18840	
5°	18800	18288	18084	18283	18464	###
15°	18296	17794	18391	17648	17093	5151
25°	17028	17082	13530	10612	8316	7839
35°	15237	13860	5612	1878	1519	9507
45°	12803	9193	1305	989	805	9900
55°	9821	2533	800	677	603	8740
65°	6035	747	597	561	522	5962
75°	2317	471	448	390	357	2509
85°	326	256	220	202	201	398
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18840.2	18840.2	18840.2	18840.2	18840.2
2.5°	18943.1	18687.9	18492.3	18383.1	18427.6
5°	18799.6	18287.9	18083.5	18282.8	18464.4
7.5°	18675.2	17914.6	18145.7	18163.5	18258.7
10°	18611.7	17879.1	17962.9	18357.7	18884.7
12.5°	18527.9	17961.6	17990.8	18529.2	18826.3
15°	18295.5	17794.0	18390.8	17648.0	17093.1
17.5°	17956.5	17402.9	18223.1	15634.2	14880.0
20°	17630.2	16977.5	16827.7	13926.4	13198.8
22.5°	17419.4	16912.8	15032.3	12409.1	11657.4
25°	17028.3	17081.7	13530.2	10612.4	8315.5
27.5°	16597.9	16684.2	12202.1	7077.5	4764.0
30°	16125.6	16224.6	10952.7	4182.5	2854.4
32.5°	15697.7	15139.0	8747.2	2609.3	1984.6
35°	15236.7	13860.4	5612.2	1877.9	1518.6
37.5°	14656.5	12517.0	3552.7	1485.6	1274.8
40°	14087.6	11310.7	2288.1	1268.5	1112.3
42.5°	13555.6	10316.5	1664.6	1108.5	1004.4
45°	12802.7	9192.8	1305.3	989.1	805.0
47.5°	12151.3	7874.9	1141.5	836.8	694.5
50°	11456.8	6021.1	1033.6	744.1	690.7
52.5°	10632.7	3938.7	954.8	712.3	645.0
55°	9821.4	2533.1	799.9	676.8	603.1
57.5°	8945.2	1606.2	706.0	656.4	629.8
60°	7943.4	1083.1	624.7	622.2	565.0
62.5°	7016.5	890.1	603.1	596.8	534.6
65°	6035.0	746.6	596.8	561.2	521.9
67.5°	5054.8	639.9	539.6	513.0	478.7
70°	4096.1	585.3	519.3	507.9	435.5
72.5°	3110.8	482.5	460.9	430.4	361.9
75°	2317.3	471.1	448.2	389.8	356.8
77.5°	1568.1	434.2	407.6	349.2	322.5
80°	976.4	398.7	349.2	306.0	273.0
82.5°	580.3	332.7	287.0	252.7	231.1
85°	326.3	256.5	219.7	201.9	200.6
87.5°	69.8	92.7	73.6	69.8	49.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)