

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-CLI-UNV-L740-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 (P23766)
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-CLI-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

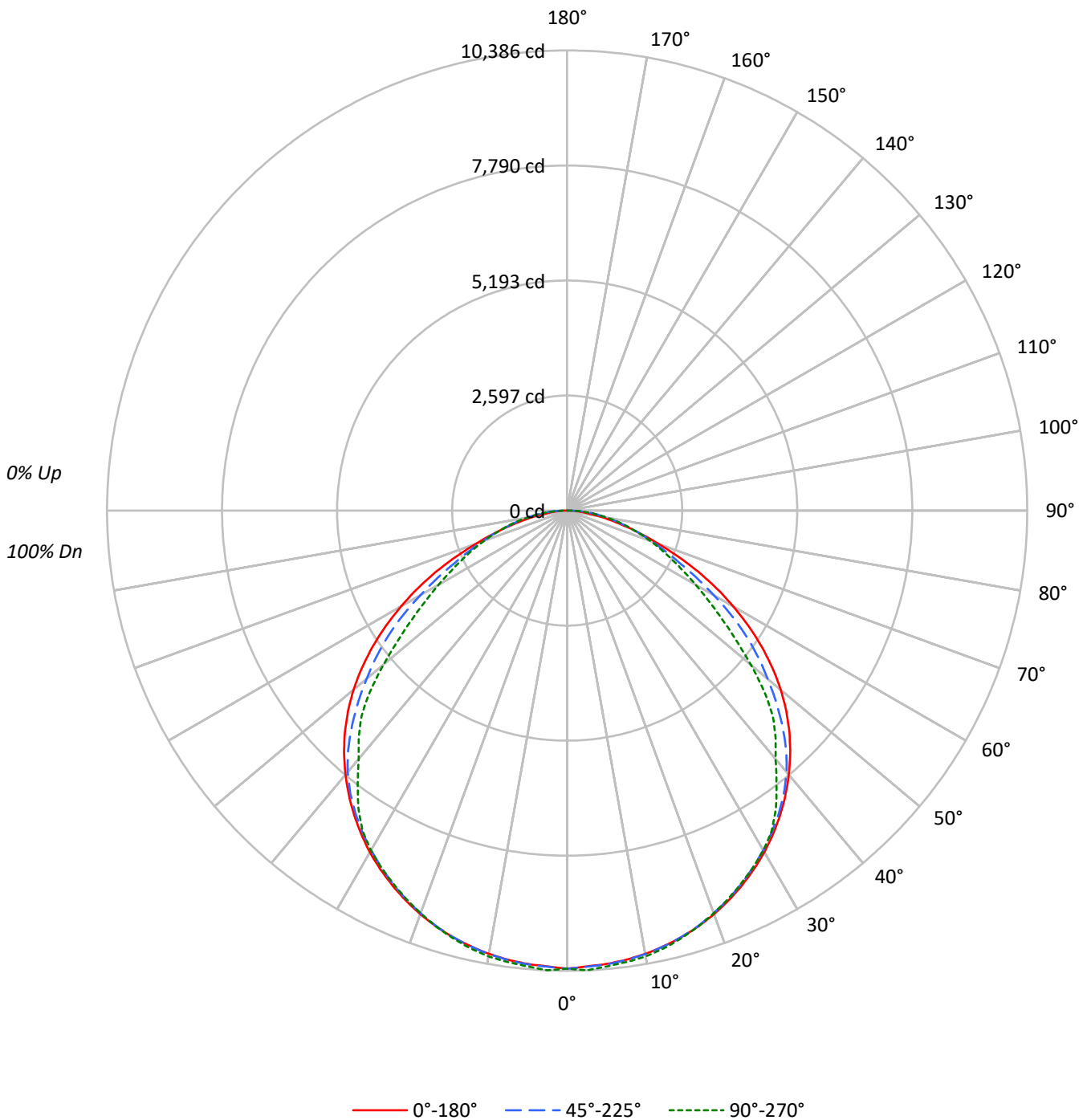
Lumens per Lamp: N/A
Luminaire Lumens: 27776.0 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	13910	13910	13910
5°	13873	13883	13945
10°	13881	13887	13960
15°	13882	13880	13913
20°	13879	13847	13850
25°	13858	13806	13789
30°	13835	13752	13760
35°	13770	13685	13491
40°	13672	13533	12850
45°	13499	13067	12495
50°	13174	12371	11316
55°	12574	11570	10006
60°	11669	10323	9024
65°	10372	8938	8298
70°	8608	7987	7821
75°	6961	7310	7400
80°	5529	6991	6963
85°	4330	7510	7166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	980.4	3.5
10°-20°	2820.1	10.2
20°-30°	4300.2	15.5
30°-40°	5202.6	18.7
40°-50°	5269.8	19.0
50°-60°	4355.6	15.7
60°-70°	2876.8	10.4
70°-80°	1500.1	5.4
80°-90°	470.3	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°	8100.8	29.2
0°-40°	13303.4	47.9
0°-60°	22928.8	82.5
0°-90°	27776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10338	10338	10338	10338	10338	
5°	10271	10333	10279	10324	10325	977
15°	9966	10017	9965	9996	9988	2814
25°	9334	9372	9300	9323	9288	4304
35°	8384	8395	8332	8320	8214	5244
45°	7094	7076	6867	6654	6567	5463
55°	5360	5281	4932	4453	4266	4778
65°	3258	3164	2807	2625	2606	3218
75°	1339	1363	1406	1425	1424	1459
85°	280	361	486	483	464	340
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10338.4	10338.4	10338.4	10338.4	10338.4
2.5°	10294.9	10355.8	10304.9	10349.6	10385.5
5°	10271.4	10333.4	10278.8	10323.5	10324.7
7.5°	10225.4	10287.5	10231.6	10276.3	10275.1
10°	10159.7	10218.0	10164.6	10218.0	10218.0
12.5°	10070.3	10127.4	10075.3	10124.9	10117.5
15°	9966.1	10016.9	9964.8	9995.8	9988.4
17.5°	9843.2	9889.1	9830.8	9856.8	9841.9
20°	9693.0	9735.2	9670.7	9704.2	9673.2
22.5°	9524.2	9563.9	9498.2	9523.0	9488.2
25°	9334.3	9371.6	9299.6	9323.2	9288.4
27.5°	9129.6	9163.1	9082.4	9110.9	9083.6
30°	8904.9	8921.0	8851.5	8888.8	8856.5
32.5°	8654.2	8664.1	8603.3	8636.8	8582.2
35°	8383.6	8394.8	8331.5	8320.4	8213.6
37.5°	8094.5	8099.4	8039.9	7939.3	7763.1
40°	7784.2	7781.7	7704.8	7472.7	7316.3
42.5°	7452.8	7451.6	7316.3	7051.9	6962.6
45°	7094.1	7075.5	6867.0	6653.6	6566.7
47.5°	6709.4	6689.5	6397.9	6227.9	6030.5
50°	6293.6	6258.9	5910.1	5678.0	5406.2
52.5°	5845.6	5792.2	5437.3	5062.5	4805.5
55°	5360.3	5280.9	4932.1	4453.1	4265.7
57.5°	4855.2	4737.3	4398.5	3931.8	3779.2
60°	4336.4	4204.9	3836.2	3452.7	3353.5
62.5°	3802.7	3672.4	3296.4	3007.2	2952.6
65°	3257.9	3163.6	2807.4	2624.9	2606.3
67.5°	2699.4	2665.9	2394.1	2301.0	2293.6
70°	2188.1	2181.9	2030.4	1983.3	1988.2
72.5°	1748.7	1741.3	1718.9	1695.3	1696.6
75°	1339.1	1362.7	1406.2	1424.8	1423.5
77.5°	999.1	1047.5	1139.3	1176.6	1170.4
80°	713.6	785.6	902.3	937.0	898.6
82.5°	475.3	551.0	688.8	693.8	662.7
85°	280.5	361.2	486.5	482.8	464.2
87.5°	139.0	217.2	291.7	279.2	266.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)