

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-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 (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-L835-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

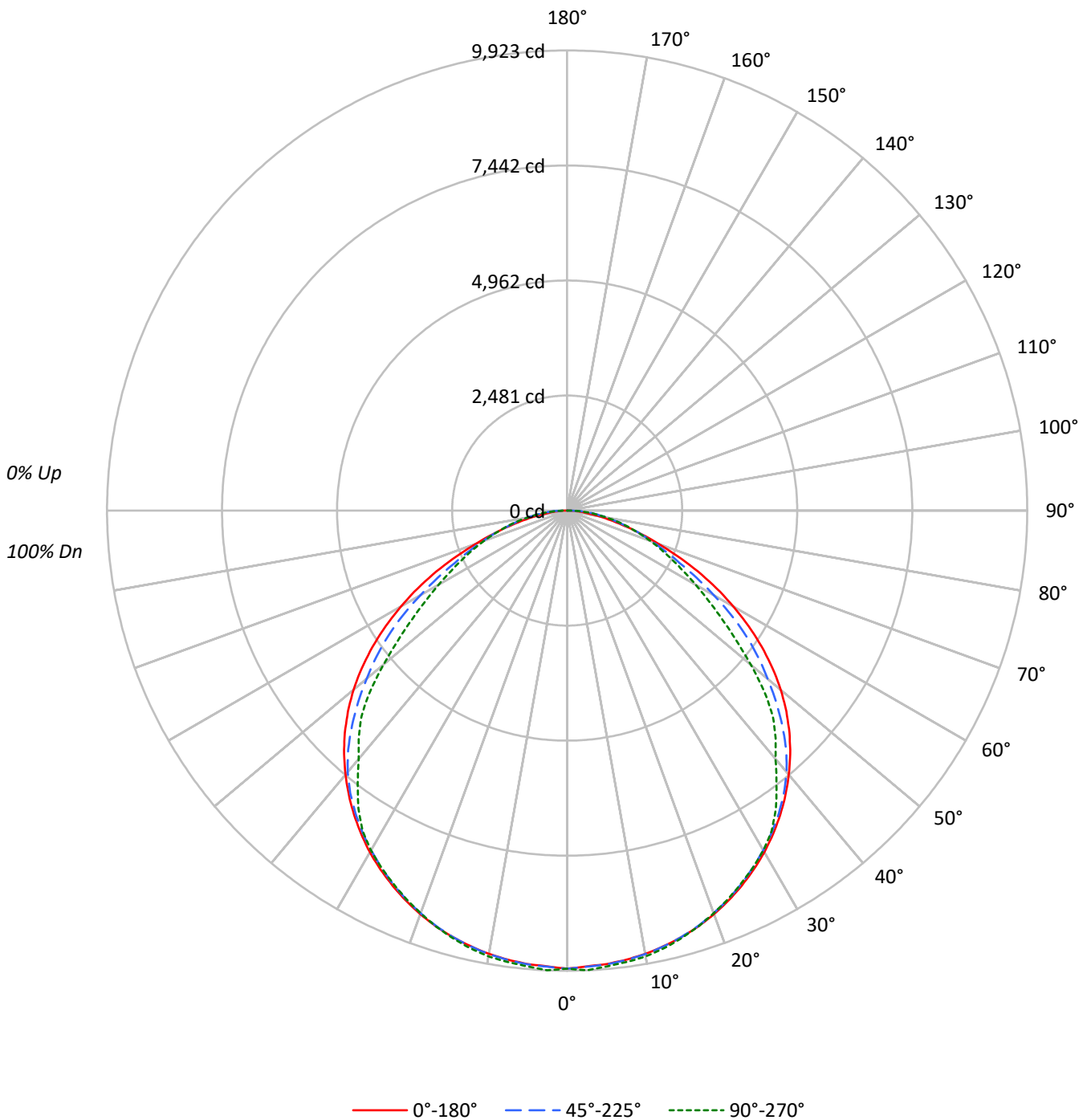
Lumens per Lamp: N/A  
Luminaire Lumens: 26538.0 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	13290	13290	13290
5°	13255	13264	13323
10°	13262	13268	13338
15°	13264	13262	13293
20°	13260	13230	13233
25°	13240	13191	13175
30°	13218	13139	13147
35°	13157	13075	12890
40°	13063	12930	12278
45°	12897	12484	11938
50°	12587	11820	10812
55°	12014	11054	9560
60°	11149	9863	8622
65°	9910	8539	7928
70°	8224	7631	7473
75°	6652	6984	7071
80°	5283	6680	6652
85°	4137	7175	6847



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	936.7	3.5
10°-20°	2694.4	10.2
20°-30°	4108.6	15.5
30°-40°	4970.8	18.7
40°-50°	5034.9	19.0
50°-60°	4161.5	15.7
60°-70°	2748.6	10.4
70°-80°	1433.2	5.4
80°-90°	449.3	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°	7739.7	29.2
0°-40°	12710.5	47.9
0°-60°	21906.9	82.5
0°-90°	26538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26538.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9878	9878	9878	9878	9878	
5°	9814	9873	9821	9863	9865	933
15°	9522	9570	9521	9550	9543	2689
25°	8918	8954	8885	8908	8874	4112
35°	8010	8021	7960	7950	7848	5010
45°	6778	6760	6561	6357	6274	5219
55°	5121	5046	4712	4255	4076	4565
65°	3113	3023	2682	2508	2490	3074
75°	1280	1302	1344	1361	1360	1394
85°	268	345	465	461	444	325
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9877.6	9877.6	9877.6	9877.6	9877.6
2.5°	9836.1	9894.2	9845.6	9888.3	9922.7
5°	9813.6	9872.9	9820.7	9863.4	9864.6
7.5°	9769.7	9829.0	9775.6	9818.3	9817.1
10°	9706.8	9762.6	9711.6	9762.6	9762.6
12.5°	9621.5	9676.0	9626.2	9673.6	9666.5
15°	9521.9	9570.5	9520.7	9550.3	9543.2
17.5°	9404.5	9448.3	9392.6	9417.5	9403.3
20°	9261.0	9301.3	9239.6	9271.7	9242.0
22.5°	9099.7	9137.7	9074.8	9098.5	9065.3
25°	8918.3	8953.9	8885.1	8907.6	8874.4
27.5°	8722.6	8754.7	8677.6	8704.9	8678.8
30°	8508.0	8523.4	8457.0	8492.6	8461.8
32.5°	8268.5	8278.0	8219.9	8251.9	8199.7
35°	8010.0	8020.7	7960.2	7949.5	7847.5
37.5°	7733.7	7738.4	7681.5	7585.5	7417.1
40°	7437.2	7434.9	7361.4	7139.6	6990.2
42.5°	7120.6	7119.5	6990.2	6737.6	6652.3
45°	6778.0	6760.2	6561.0	6357.0	6274.0
47.5°	6410.4	6391.4	6112.7	5950.3	5761.7
50°	6013.1	5979.9	5646.7	5425.0	5165.3
52.5°	5585.0	5534.1	5194.9	4836.8	4591.4
55°	5121.4	5045.5	4712.3	4254.6	4075.5
57.5°	4638.8	4526.1	4202.4	3756.6	3610.7
60°	4143.1	4017.4	3665.3	3298.9	3204.0
62.5°	3633.2	3508.7	3149.4	2873.2	2821.0
65°	3112.7	3022.6	2682.2	2507.9	2490.1
67.5°	2579.1	2547.1	2287.4	2198.4	2191.3
70°	2090.5	2084.6	1939.9	1894.9	1899.6
72.5°	1670.8	1663.7	1642.3	1619.8	1621.0
75°	1279.5	1302.0	1343.5	1361.3	1360.1
77.5°	954.6	1000.8	1088.6	1124.1	1118.2
80°	681.8	750.6	862.1	895.3	858.5
82.5°	454.2	526.5	658.1	662.9	633.2
85°	268.0	345.1	464.8	461.3	443.5
87.5°	132.8	207.5	278.7	266.8	254.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)