

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-LD5-30HE-W-CL-UNV-L850-ED2-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 (P23762)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-30HE-W-CL-UNV-L850-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

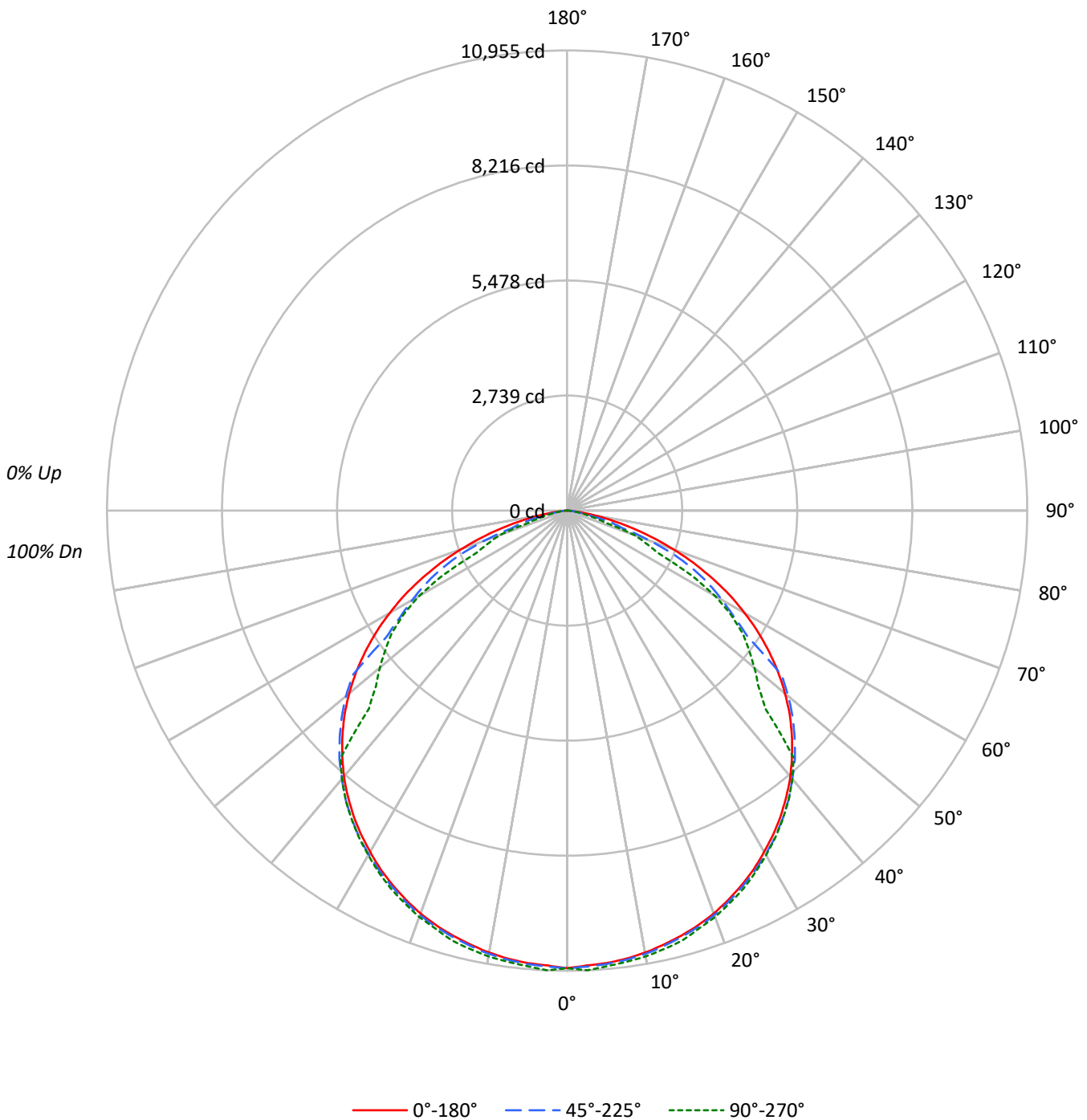
Lumens per Lamp: N/A  
Luminaire Lumens: 29444.0 lumens  
Efficiency: N/A  
Efficacy: 163.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 180  
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	14654	14654	14654
5°	14601	14633	14705
10°	14599	14641	14726
15°	14598	14643	14761
20°	14617	14672	14740
25°	14600	14655	14744
30°	14572	14679	14712
35°	14565	14698	14709
40°	14520	14648	14648
45°	14396	14570	12695
50°	14173	14387	12180
55°	13771	12315	11964
60°	13125	11448	10930
65°	12138	10627	7570
70°	10569	8269	6745
75°	8348	5549	3626
80°	5373	2651	2260
85°	2211	1618	1782



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1033.1	3.5
10°-20°	2977.8	10.1
20°-30°	4565.5	15.5
30°-40°	5595.7	19.0
40°-50°	5752.8	19.5
50°-60°	4909.7	16.7
60°-70°	3245.9	11.0
70°-80°	1202.6	4.1
80°-90°	160.8	0.5
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°	8576.4	29.1
0°-40°	14172.1	48.1
0°-60°	24834.7	84.3
0°-90°	29444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29444.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10891	10891	10891	10891	10891	
5°	10810	10886	10834	10877	10887	###
15°	10480	10544	10512	10592	10597	2960
25°	9834	9886	9872	9960	9931	4534
35°	8868	8929	8948	9004	8955	5547
45°	7565	7641	7657	7645	6672	5830
55°	5871	5978	5250	5098	5100	5238
65°	3812	3844	3338	2745	2378	3759
75°	1606	1407	1068	717	698	1723
85°	143	102	105	114	115	237
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10891.2	10891.2	10891.2	10891.2	10891.2
2.5°	10838.2	10905.8	10866.0	10916.4	10954.9
5°	10810.3	10885.9	10834.2	10876.6	10887.2
7.5°	10762.6	10832.9	10785.1	10840.8	10832.9
10°	10685.7	10749.3	10716.2	10774.5	10778.5
12.5°	10587.5	10651.2	10620.7	10692.3	10691.0
15°	10480.1	10543.8	10512.0	10591.5	10596.8
17.5°	10354.2	10412.5	10388.6	10461.6	10432.4
20°	10208.3	10258.7	10246.7	10315.7	10294.5
22.5°	10029.3	10081.0	10069.0	10148.6	10116.8
25°	9834.3	9886.0	9871.5	9960.3	9931.1
27.5°	9623.5	9672.5	9671.2	9754.8	9709.7
30°	9379.5	9444.5	9448.4	9522.7	9469.6
32.5°	9138.1	9199.1	9216.4	9270.7	9225.6
35°	8867.6	8928.6	8948.5	9004.2	8955.1
37.5°	8575.9	8627.6	8663.4	8704.5	8666.0
40°	8266.9	8313.3	8339.8	8390.2	8339.8
42.5°	7922.1	7988.4	8025.5	8061.3	7979.1
45°	7565.4	7641.0	7656.9	7644.9	6671.6
47.5°	7187.4	7269.7	7278.9	6348.0	6169.0
50°	6771.0	6874.5	6873.2	5866.6	5818.9
52.5°	6337.4	6436.9	6432.9	5490.0	5458.2
55°	5870.6	5978.0	5250.0	5097.5	5100.2
57.5°	5394.6	5471.5	4710.3	4716.9	4629.4
60°	4877.4	4950.3	4254.1	4213.0	4061.8
62.5°	4358.9	4389.4	3812.5	3612.3	3324.5
65°	3812.5	3844.4	3337.8	2745.0	2377.7
67.5°	3251.6	3283.4	2770.2	2042.2	2014.3
70°	2686.7	2426.8	2101.9	1701.4	1714.6
72.5°	2129.7	1864.5	1373.8	1318.1	952.1
75°	1605.9	1407.0	1067.5	717.4	697.5
77.5°	1117.9	969.4	571.5	489.3	457.5
80°	693.5	486.7	342.1	303.7	291.7
82.5°	351.4	279.8	185.7	185.7	185.7
85°	143.2	102.1	104.8	114.0	115.4
87.5°	30.5	41.1	50.4	51.7	50.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)