

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-UNV-L835-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 (P23760)  
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-UNV-L835-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

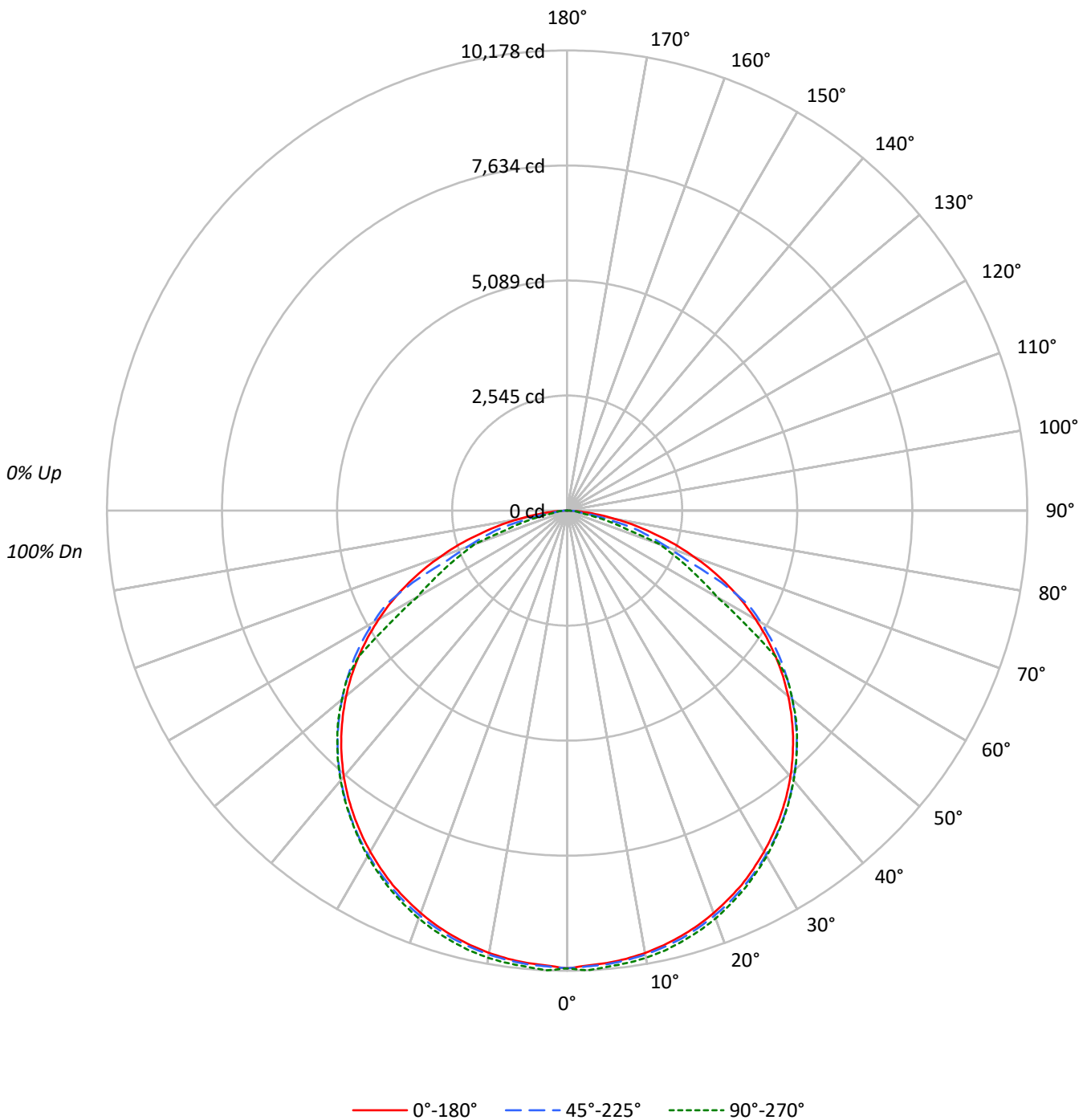
Lumens per Lamp: N/A  
Luminaire Lumens: 29230.0 lumens  
Efficiency: N/A  
Efficacy: 162.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	13623	13623	13623
5°	13567	13605	13682
10°	13574	13623	13725
15°	13571	13644	13738
20°	13564	13651	13747
25°	13559	13656	13732
30°	13535	13667	13718
35°	13518	13674	13692
40°	13494	13673	13694
45°	13443	13667	13683
50°	13363	13609	13606
55°	13207	13537	13201
60°	12962	13337	10329
65°	12529	12004	9306
70°	11738	9236	8576
75°	10394	8052	5345
80°	8559	4740	2389
85°	5641	2905	3129



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	960.8	3.3
10°-20°	2772.0	9.5
20°-30°	4249.9	14.5
30°-40°	5212.0	17.8
40°-50°	5534.3	18.9
50°-60°	5054.9	17.3
60°-70°	3520.2	12.0
70°-80°	1641.8	5.6
80°-90°	284.0	1.0
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°	7982.7	27.3
0°-40°	13194.7	45.1
0°-60°	23783.9	81.4
0°-90°	29230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29230.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10125	10125	10125	10125	10125	
5°	10045	10115	10073	10121	10130	956
15°	9743	9811	9795	9854	9863	2751
25°	9133	9213	9199	9267	9250	4209
35°	8230	8325	8325	8381	8336	5150
45°	7065	7172	7183	7229	7191	5449
55°	5630	5743	5771	5780	5628	5028
65°	3935	4057	3770	2998	2923	3883
75°	1999	2126	1549	1073	1028	2137
85°	365	240	188	202	203	472
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10125.0	10125.0	10125.0	10125.0	10125.0
2.5°	10071.6	10135.9	10093.4	10139.6	10178.4
5°	10044.9	10115.3	10072.8	10121.4	10129.9
7.5°	10001.2	10068.0	10029.1	10082.5	10095.9
10°	9935.6	10001.2	9970.8	10034.0	10046.1
12.5°	9847.0	9913.8	9890.7	9959.9	9968.4
15°	9742.6	9810.6	9794.8	9854.3	9862.8
17.5°	9620.0	9690.4	9672.2	9735.3	9741.4
20°	9473.2	9549.6	9533.8	9607.9	9600.6
22.5°	9308.1	9389.4	9377.3	9451.3	9429.5
25°	9133.3	9213.4	9198.8	9266.8	9249.8
27.5°	8928.1	9016.7	9003.4	9068.9	9042.2
30°	8712.0	8801.9	8797.0	8856.5	8829.8
32.5°	8479.0	8574.9	8570.0	8628.3	8587.0
35°	8230.1	8324.8	8324.8	8380.7	8335.7
37.5°	7966.7	8062.6	8063.8	8117.2	8074.8
40°	7682.7	7778.6	7784.6	7835.6	7796.8
42.5°	7384.1	7488.5	7493.3	7539.4	7503.0
45°	7064.8	7171.6	7182.6	7228.7	7191.0
47.5°	6731.0	6839.0	6848.7	6898.5	6871.8
50°	6383.8	6488.2	6501.6	6542.8	6500.3
52.5°	6017.2	6124.0	6142.3	6167.7	6148.3
55°	5630.0	5742.9	5770.8	5780.5	5627.6
57.5°	5229.4	5344.7	5371.4	5148.1	4656.5
60°	4816.7	4930.8	4956.3	4187.9	3838.3
62.5°	4387.0	4498.7	4526.6	3470.5	3358.8
65°	3935.4	4056.8	3770.3	2998.3	2923.0
67.5°	3471.7	3596.7	2851.4	2569.8	2524.9
70°	2983.7	3110.0	2347.7	2191.1	2180.1
72.5°	2515.2	2608.6	1926.4	1660.6	1398.4
75°	1999.3	2125.5	1548.9	1073.1	1028.2
77.5°	1550.1	1340.1	934.7	786.6	620.3
80°	1104.6	895.8	611.8	326.5	308.3
82.5°	700.4	585.1	240.3	246.4	257.3
85°	365.4	240.3	188.2	201.5	202.7
87.5°	117.7	103.2	112.9	111.7	110.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)