

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-WG-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 (P33336)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-30HE-W-WG-UNV-L835-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

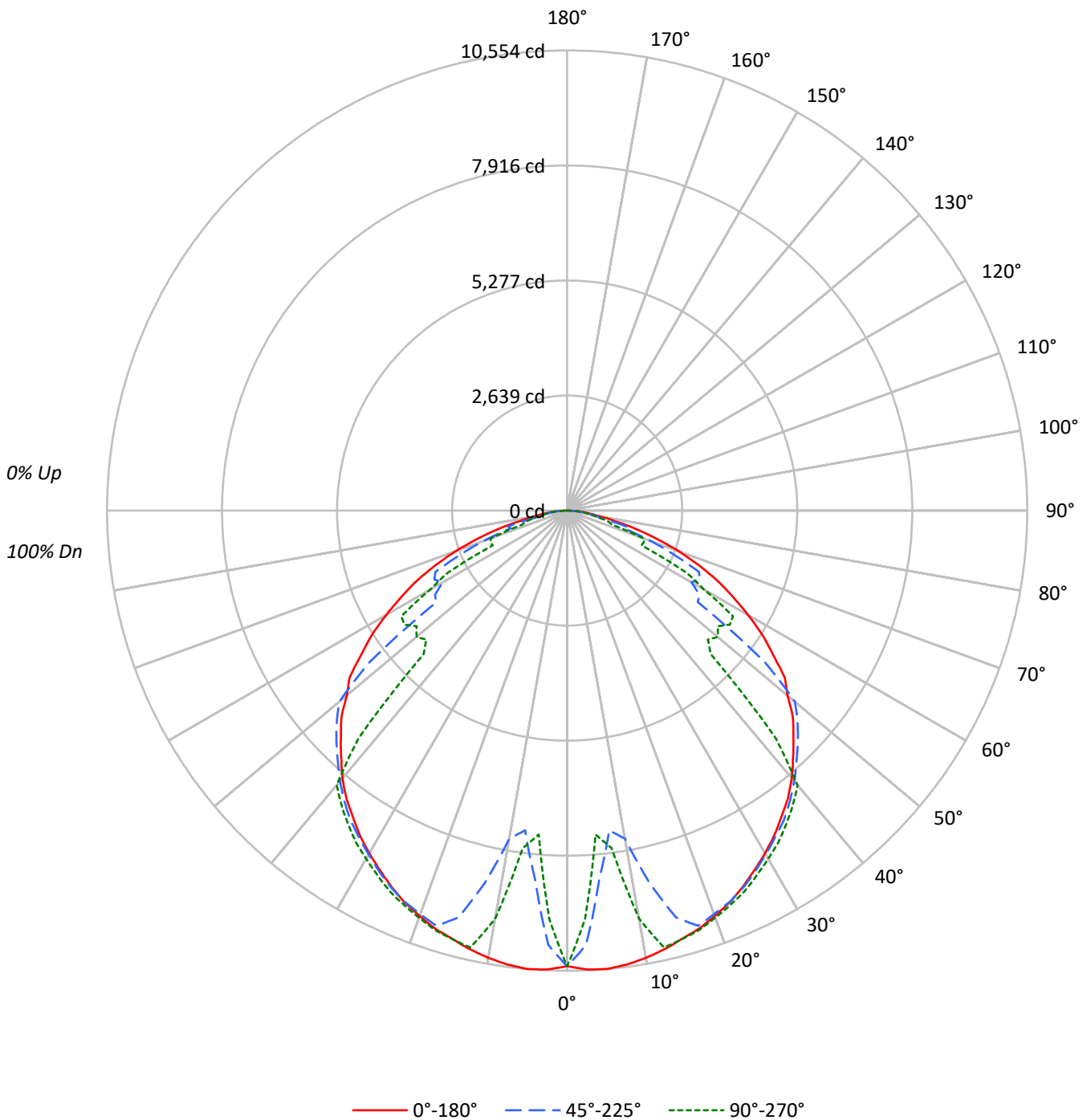
Lumens per Lamp: N/A  
Luminaire Lumens: 27681.0 lumens  
Efficiency: N/A  
Efficacy: 153.8 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	14059	14059	14059
5°	14254	11451	10071
10°	14229	10443	12988
15°	14166	13460	14179
20°	14166	14102	14227
25°	14141	14173	14303
30°	14100	14147	14329
35°	14078	14234	14400
40°	14080	14233	14437
45°	13969	14243	8851
50°	13811	14271	9433
55°	13520	8581	10692
60°	12897	8846	9790
65°	12084	10621	5990
70°	10670	8046	7343
75°	8502	7313	5092
80°	5857	5286	4376
85°	5613	4880	4630



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	835.5	3.0
10°-20°	2617.6	9.5
20°-30°	4306.5	15.6
30°-40°	5414.9	19.6
40°-50°	5310.6	19.2
50°-60°	4400.1	15.9
60°-70°	3103.5	11.2
70°-80°	1354.0	4.9
80°-90°	338.3	1.2
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°	7759.6	28.0
0°-40°	13174.5	47.6
0°-60°	22885.2	82.7
0°-90°	27681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27681.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10449	10449	10449	10449	10449	
5°	10554	9823	8478	7688	7456	###
15°	10170	7063	9663	10210	10179	2876
25°	9525	8716	9547	9610	9634	4391
35°	8571	8566	8666	8723	8767	5370
45°	7341	7364	7485	6629	4652	5667
55°	5764	5952	3658	4159	4558	5157
65°	3796	4019	3336	2566	1882	3732
75°	1636	1603	1407	920	980	1754
85°	364	324	316	302	300	377
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10448.7	10448.7	10448.7	10448.7	10448.7
2.5°	10534.9	10316.2	9968.9	9531.6	9376.7
5°	10553.6	9822.7	8478.4	7687.5	7456.4
7.5°	10499.9	8926.9	7391.4	7557.6	7802.5
10°	10414.9	8139.8	7643.8	8993.1	9506.6
12.5°	10306.2	7440.1	8757.0	10158.8	10261.3
15°	10170.1	7062.8	9662.8	10210.0	10178.8
17.5°	10055.1	7284.0	9987.7	10107.6	10085.1
20°	9893.9	7725.0	9849.0	9945.2	9936.4
22.5°	9731.5	8247.2	9717.8	9786.5	9786.5
25°	9525.4	8715.8	9546.6	9610.3	9634.1
27.5°	9299.2	8985.6	9333.0	9385.4	9427.9
30°	9075.6	9024.4	9105.6	9173.0	9223.0
32.5°	8839.5	8819.5	8883.2	8954.4	9018.1
35°	8570.8	8565.8	8665.8	8723.3	8767.0
37.5°	8318.5	8301.0	8393.4	8473.4	8507.1
40°	8016.1	8016.1	8103.6	8184.8	8219.8
42.5°	7671.3	7720.0	7787.5	7871.2	7089.1
45°	7341.4	7363.9	7485.1	6629.3	4651.5
47.5°	7024.1	7052.8	7167.8	4261.7	4377.9
50°	6598.0	6728.0	6817.9	4249.2	4506.6
52.5°	6286.9	6343.2	5723.5	4206.7	4351.6
55°	5763.5	5952.1	3658.2	4159.2	4557.8
57.5°	5316.2	5453.6	3597.0	4261.7	4509.1
60°	4792.7	5002.6	3287.2	4111.8	3638.2
62.5°	4290.4	4490.3	3432.1	3235.9	3081.0
65°	3795.7	4019.3	3335.9	2566.3	1881.6
67.5°	3253.4	3044.8	2661.2	1807.9	1902.8
70°	2712.4	2126.5	2045.3	2021.5	1866.6
72.5°	2156.5	1551.7	1358.1	1516.8	1085.7
75°	1635.5	1603.0	1406.8	919.6	979.5
77.5°	1134.4	1156.9	753.4	897.1	744.6
80°	755.9	654.7	682.2	572.2	564.7
82.5°	523.5	534.7	448.5	434.8	441.0
85°	363.6	323.6	316.1	302.4	299.9
87.5°	121.2	141.2	131.2	118.7	126.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)