

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-AI-UNV-L735-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 (P23765)  
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-AI-UNV-L735-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

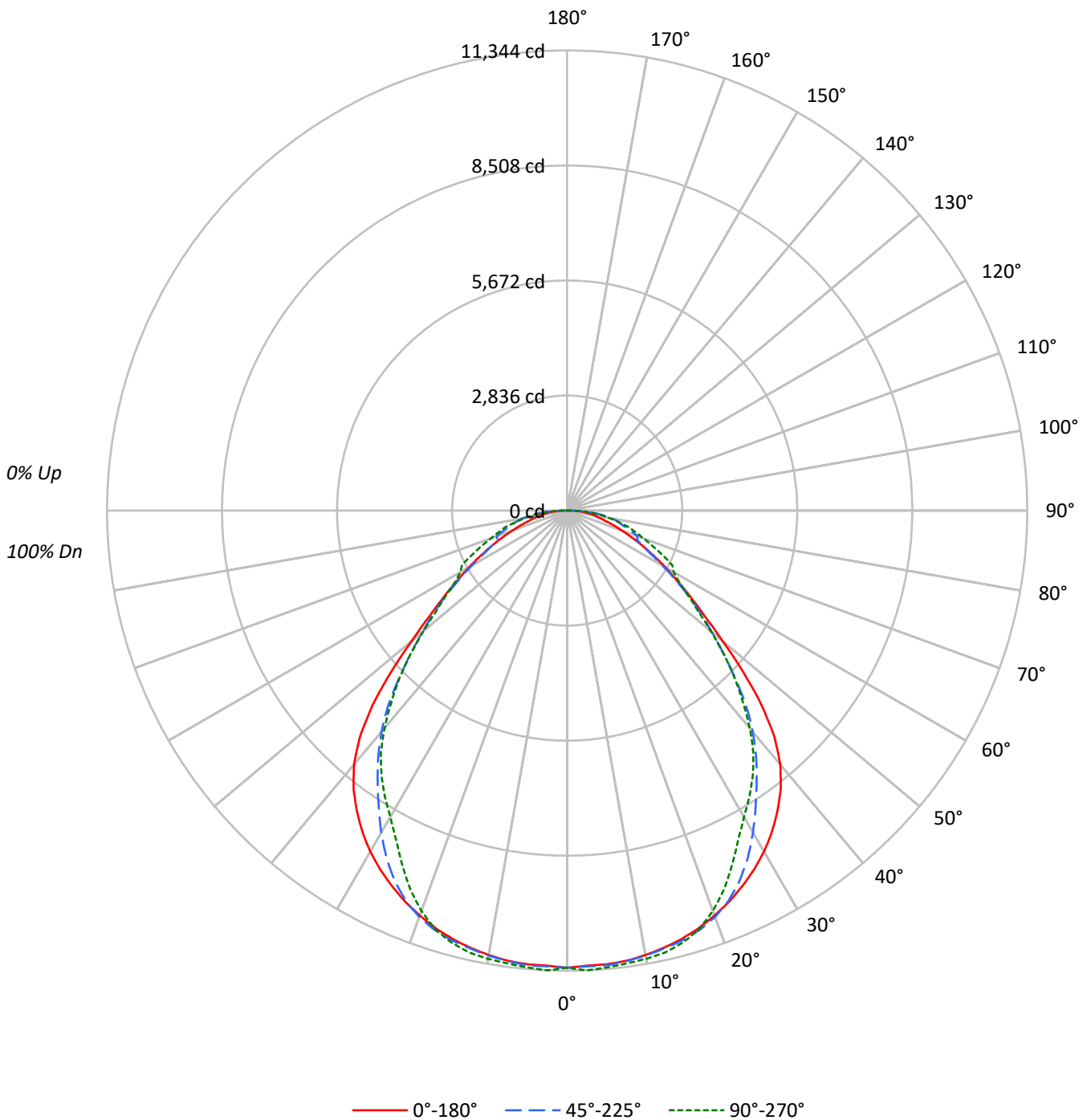
Lumens per Lamp: N/A  
Luminaire Lumens: 26083.0 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P#  
CATALOG NUMBER: HBLED-LD5-30SE-W-AI-UNV-L735-ED3-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-W-AI-UNV-L735-ED3-U

**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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

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

	0°	45°	90°
0°	15162	15162	15162
5°	15161	15194	15268
10°	15199	15218	15330
15°	15222	15279	15354
20°	15207	15263	15037
25°	15168	14941	14291
30°	15079	14236	13542
35°	14852	13380	13102
40°	14355	12511	12304
45°	12903	11171	11130
50°	10465	9730	9664
55°	8690	8528	8525
60°	7523	7304	8166
65°	6520	6480	8230
70°	5622	7269	7846
75°	5042	7450	8179
80°	5240	8770	8206
85°	5950	10106	9377



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-W-AI-UNV-L735-ED3-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1072.9	4.1
10°-20°	3098.7	11.9
20°-30°	4602.2	17.6
30°-40°	5224.8	20.0
40°-50°	4670.7	17.9
50°-60°	3229.4	12.4
60°-70°	2130.9	8.2
70°-80°	1437.6	5.5
80°-90°	615.7	2.4
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°	8773.8	33.6
0°-40°	13998.6	53.7
0°-60°	21898.7	84.0
0°-90°	26083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26083.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11269	11269	11269	11269	11269	
5°	11225	11294	11250	11296	11304	###
15°	10928	10980	10969	11030	11022	3085
25°	10217	10314	10064	9764	9626	4708
35°	9042	8852	8146	8028	7976	5638
45°	6781	6207	5871	5916	5849	5157
55°	3704	3382	3635	3584	3634	3365
65°	2048	1818	2035	2380	2585	2044
75°	970	1220	1433	1531	1573	1059
85°	385	536	655	658	607	402
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-W-AI-UNV-L735-ED3-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11268.7	11268.7	11268.7	11268.7	11268.7
2.5°	11230.4	11300.6	11248.2	11296.7	11343.9
5°	11225.3	11294.2	11249.5	11295.5	11304.4
7.5°	11193.4	11257.2	11204.9	11249.5	11259.7
10°	11124.5	11199.8	11138.5	11207.4	11220.2
12.5°	11035.1	11111.7	11058.1	11152.5	11157.6
15°	10928.0	10980.3	10968.8	11030.0	11022.4
17.5°	10792.7	10852.7	10843.7	10859.1	10823.3
20°	10620.4	10688.1	10660.0	10589.8	10501.8
22.5°	10435.4	10517.1	10406.1	10228.7	10104.9
25°	10217.2	10314.2	10064.1	9764.2	9626.4
27.5°	9976.0	10062.8	9646.8	9279.3	9136.4
30°	9705.5	9742.5	9163.2	8813.6	8716.6
32.5°	9392.9	9339.3	8646.4	8415.4	8359.3
35°	9042.0	8851.9	8146.2	8027.5	7976.5
37.5°	8646.4	8298.1	7652.4	7597.5	7543.9
40°	8173.0	7658.8	7122.8	7087.1	7005.4
42.5°	7561.8	6963.3	6534.6	6492.5	6419.7
45°	6780.8	6206.6	5871.0	5915.7	5849.3
47.5°	5882.5	5447.4	5234.3	5356.8	5234.3
50°	4999.5	4707.3	4648.6	4759.6	4616.7
52.5°	4276.0	4013.1	4134.4	4153.5	4068.0
55°	3704.3	3381.5	3635.4	3584.4	3634.1
57.5°	3206.7	2845.6	3158.2	3099.5	3270.5
60°	2795.8	2390.0	2714.1	2701.4	3034.4
62.5°	2392.6	2068.5	2328.8	2516.3	2925.9
65°	2048.0	1818.3	2035.3	2379.8	2585.2
67.5°	1717.5	1630.8	1861.7	2053.1	2277.7
70°	1429.2	1473.8	1847.7	1812.0	1994.4
72.5°	1186.7	1338.6	1630.8	1637.2	1766.0
75°	969.8	1219.9	1433.0	1531.2	1573.4
77.5°	806.5	1106.3	1293.9	1328.4	1287.5
80°	676.3	974.9	1131.8	1116.5	1059.1
82.5°	546.1	738.8	891.9	906.0	838.4
85°	385.4	535.9	654.6	658.4	607.4
87.5°	206.7	330.5	396.8	408.3	377.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)