

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-CL-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 (P23762)  
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-CL-UNV-L835-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

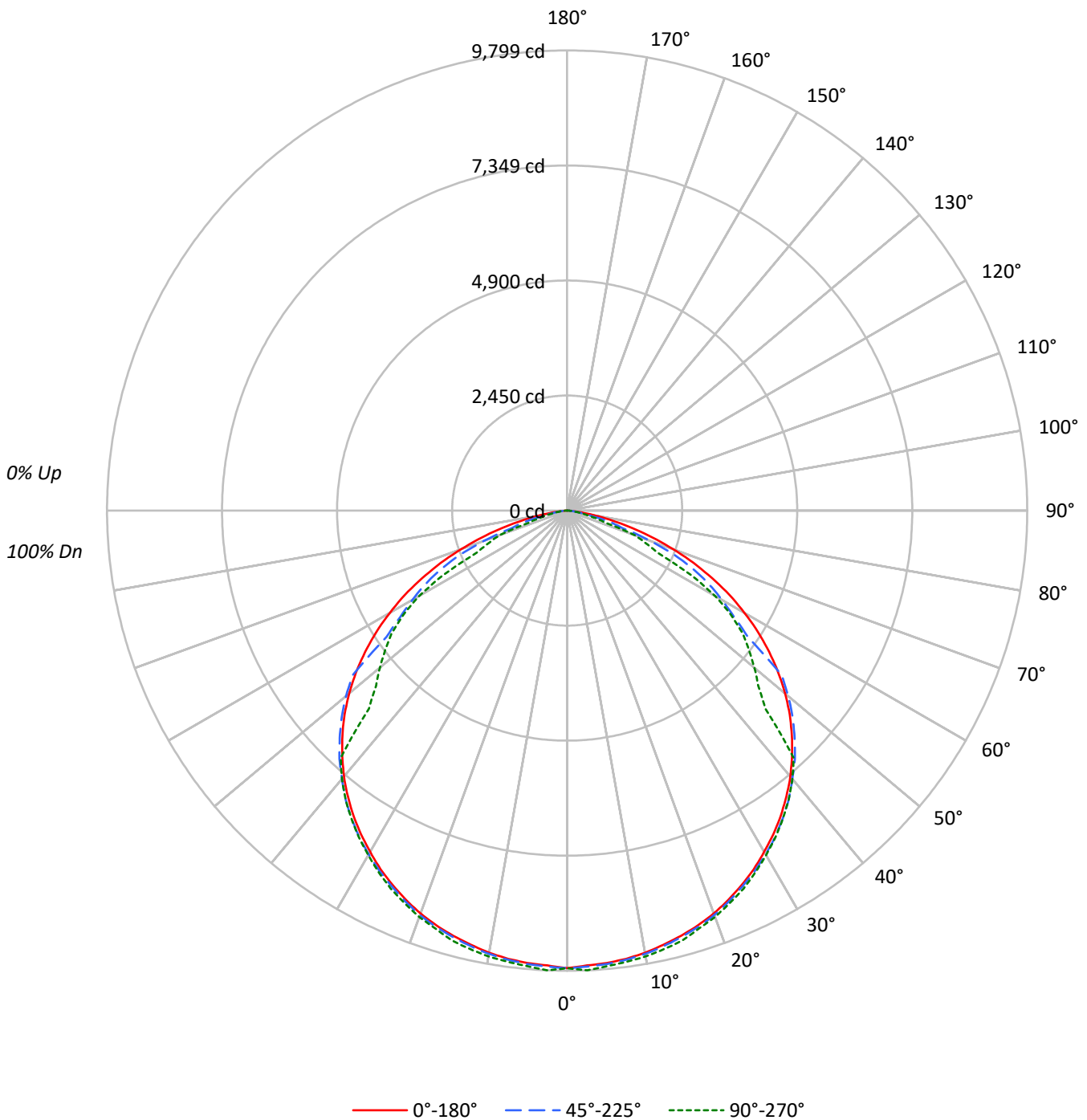
Lumens per Lamp: N/A  
Luminaire Lumens: 26338.0 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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-CL-UNV-L835-ED3-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-W-CL-UNV-L835-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	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°	13108	13108	13108
5°	13061	13089	13154
10°	13059	13096	13173
15°	13058	13098	13204
20°	13075	13124	13185
25°	13060	13109	13188
30°	13035	13131	13160
35°	13029	13148	13158
40°	12988	13103	13103
45°	12877	13033	11356
50°	12678	12869	10895
55°	12318	11016	10702
60°	11740	10240	9777
65°	10857	9506	6771
70°	9454	7396	6034
75°	7468	4964	3243
80°	4807	2371	2022
85°	1978	1447	1593



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-W-CL-UNV-L835-ED3-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	924.1	3.5
10°-20°	2663.7	10.1
20°-30°	4083.9	15.5
30°-40°	5005.4	19.0
40°-50°	5145.9	19.5
50°-60°	4391.8	16.7
60°-70°	2903.5	11.0
70°-80°	1075.7	4.1
80°-90°	143.9	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°	7671.7	29.1
0°-40°	12677.1	48.1
0°-60°	22214.9	84.3
0°-90°	26338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26338.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9742	9742	9742	9742	9742	
5°	9670	9738	9691	9729	9739	920
15°	9375	9432	9403	9474	9479	2648
25°	8797	8843	8830	8910	8884	4056
35°	7932	7987	8004	8054	8010	4962
45°	6767	6835	6849	6838	5968	5215
55°	5251	5347	4696	4560	4562	4686
65°	3410	3439	2986	2456	2127	3363
75°	1436	1259	955	642	624	1541
85°	128	91	94	102	103	212
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-W-CL-UNV-L835-ED3-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9742.3	9742.3	9742.3	9742.3	9742.3
2.5°	9694.9	9755.4	9719.8	9764.9	9799.3
5°	9670.0	9737.6	9691.3	9729.3	9738.8
7.5°	9627.3	9690.1	9647.4	9697.3	9690.1
10°	9558.5	9615.4	9585.7	9637.9	9641.5
12.5°	9470.7	9527.6	9500.3	9564.4	9563.2
15°	9374.6	9431.5	9403.1	9474.2	9479.0
17.5°	9261.9	9314.1	9292.8	9358.0	9331.9
20°	9131.4	9176.5	9165.8	9227.5	9208.5
22.5°	8971.3	9017.6	9006.9	9078.1	9049.6
25°	8796.9	8843.2	8830.1	8909.6	8883.5
27.5°	8608.3	8652.2	8651.0	8725.7	8685.4
30°	8390.0	8448.2	8451.7	8518.2	8470.7
32.5°	8174.2	8228.7	8244.1	8292.8	8252.4
35°	7932.2	7986.7	8004.5	8054.4	8010.5
37.5°	7671.2	7717.5	7749.5	7786.3	7751.9
40°	7394.8	7436.3	7460.1	7505.1	7460.1
42.5°	7086.4	7145.7	7178.9	7211.0	7137.4
45°	6767.3	6834.9	6849.2	6838.5	5967.8
47.5°	6429.2	6502.8	6511.1	5678.4	5518.2
50°	6056.8	6149.3	6148.1	5247.8	5205.1
52.5°	5668.9	5757.9	5754.3	4910.9	4882.4
55°	5251.3	5347.4	4696.2	4559.8	4562.2
57.5°	4825.5	4894.3	4213.4	4219.3	4141.1
60°	4362.9	4428.1	3805.4	3768.6	3633.4
62.5°	3899.1	3926.3	3410.3	3231.2	2973.8
65°	3410.3	3438.8	2985.7	2455.5	2126.9
67.5°	2908.6	2937.1	2478.0	1826.8	1801.9
70°	2403.3	2170.8	1880.1	1521.9	1533.8
72.5°	1905.1	1667.8	1228.9	1179.1	851.7
75°	1436.5	1258.6	954.9	641.7	623.9
77.5°	1000.0	867.1	511.3	437.7	409.2
80°	620.4	435.3	306.0	271.6	261.0
82.5°	314.3	250.3	166.1	166.1	166.1
85°	128.1	91.3	93.7	102.0	103.2
87.5°	27.3	36.8	45.1	46.3	45.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)