

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-L735-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-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

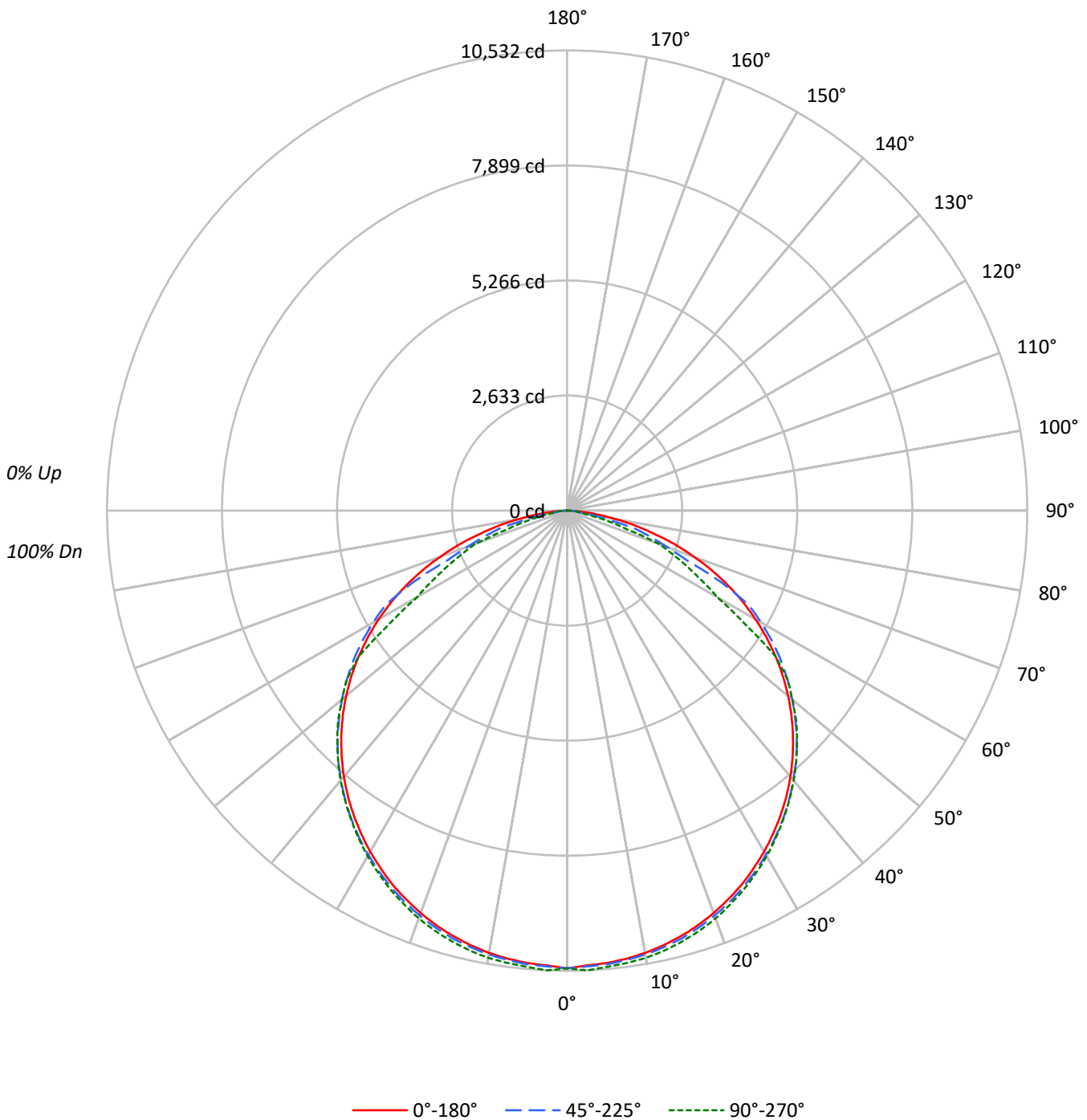
Lumens per Lamp: N/A
Luminaire Lumens: 30244.0 lumens
Efficiency: N/A
Efficacy: 168.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-30HE-W-UNV-L735-ED2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30HE-W-UNV-L735-ED2-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	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°	14096	14096	14096
5°	14038	14077	14156
10°	14045	14095	14202
15°	14042	14117	14215
20°	14035	14125	14223
25°	14029	14130	14209
30°	14005	14142	14194
35°	13987	14148	14167
40°	13962	14147	14169
45°	13909	14141	14158
50°	13826	14081	14079
55°	13665	14007	13659
60°	13411	13800	10687
65°	12964	12420	9629
70°	12145	9556	8874
75°	10754	8331	5530
80°	8856	4905	2472
85°	5837	3006	3239



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30HE-W-UNV-L735-ED2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	994.1	3.3
10°-20°	2868.2	9.5
20°-30°	4397.3	14.5
30°-40°	5392.8	17.8
40°-50°	5726.3	18.9
50°-60°	5230.3	17.3
60°-70°	3642.3	12.0
70°-80°	1698.8	5.6
80°-90°	293.9	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°	8259.6	27.3
0°-40°	13652.4	45.1
0°-60°	24609.0	81.4
0°-90°	30244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10476	10476	10476	10476	10476	
5°	10393	10466	10422	10472	10481	989
15°	10081	10151	10135	10196	10205	2847
25°	9450	9533	9518	9588	9571	4355
35°	8516	8614	8614	8671	8625	5329
45°	7310	7420	7432	7479	7440	5638
55°	5825	5942	5971	5981	5823	5202
65°	4072	4198	3901	3102	3024	4018
75°	2069	2199	1603	1110	1064	2211
85°	378	249	195	208	210	488
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30HE-W-UNV-L735-ED2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10476.2	10476.2	10476.2	10476.2	10476.2
2.5°	10421.0	10487.6	10443.6	10491.3	10531.5
5°	10393.4	10466.2	10422.2	10472.5	10481.3
7.5°	10348.1	10417.2	10377.0	10432.3	10446.1
10°	10280.3	10348.1	10316.7	10382.0	10394.6
12.5°	10188.6	10257.7	10233.8	10305.4	10314.2
15°	10080.6	10150.9	10134.6	10196.2	10205.0
17.5°	9953.8	10026.6	10007.8	10073.1	10079.4
20°	9801.8	9880.9	9864.6	9941.2	9933.7
22.5°	9631.0	9715.1	9702.6	9779.2	9756.6
25°	9450.1	9533.0	9517.9	9588.3	9570.7
27.5°	9237.8	9329.5	9315.7	9383.5	9355.9
30°	9014.3	9107.2	9102.2	9163.7	9136.1
32.5°	8773.1	8872.3	8867.3	8927.6	8884.9
35°	8515.6	8613.6	8613.6	8671.4	8624.9
37.5°	8243.1	8342.3	8343.6	8398.8	8354.9
40°	7949.2	8048.4	8054.7	8107.4	8067.2
42.5°	7640.2	7748.2	7753.3	7801.0	7763.3
45°	7309.9	7420.4	7431.7	7479.4	7440.5
47.5°	6964.5	7076.3	7086.3	7137.8	7110.2
50°	6605.3	6713.3	6727.1	6769.8	6725.8
52.5°	6226.0	6336.5	6355.3	6381.7	6361.6
55°	5825.3	5942.1	5971.0	5981.0	5822.8
57.5°	5410.8	5530.1	5557.8	5326.7	4818.0
60°	4983.8	5101.8	5128.2	4333.2	3971.5
62.5°	4539.2	4654.7	4683.6	3590.9	3475.3
65°	4071.9	4197.5	3901.1	3102.3	3024.4
67.5°	3592.1	3721.5	2950.3	2658.9	2612.5
70°	3087.2	3217.9	2429.1	2267.1	2255.8
72.5°	2602.4	2699.1	1993.3	1718.2	1446.9
75°	2068.6	2199.2	1602.6	1110.3	1063.8
77.5°	1603.9	1386.6	967.1	813.9	641.8
80°	1143.0	926.9	633.0	337.9	319.0
82.5°	724.7	605.4	248.7	255.0	266.3
85°	378.1	248.7	194.7	208.5	209.8
87.5°	121.8	106.8	116.8	115.6	114.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)