

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-CLI-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 (P23766)
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-CLI-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

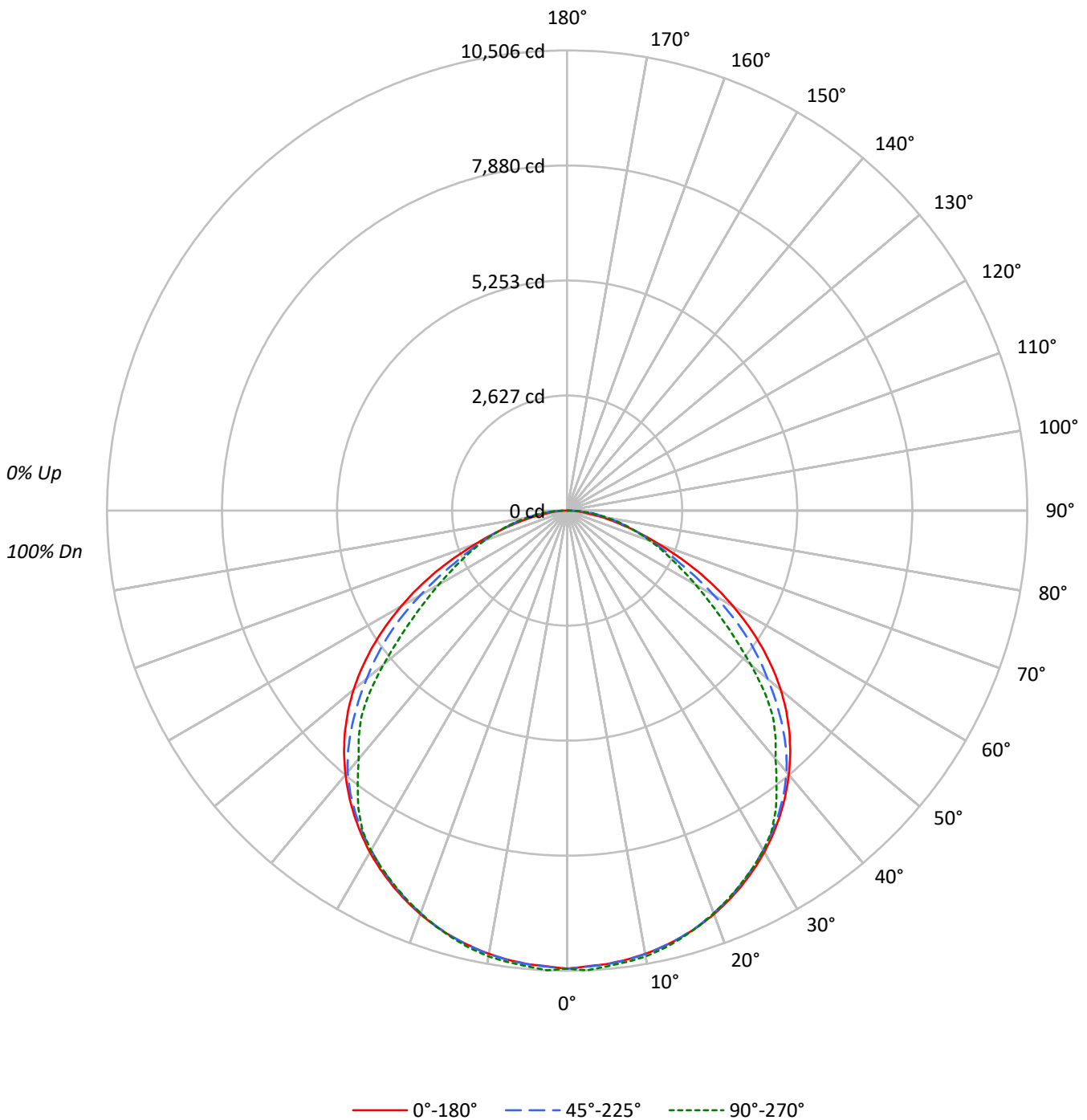
Lumens per Lamp: N/A
Luminaire Lumens: 28097.0 lumens
Efficiency: N/A
Efficacy: 156.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14071	14071	14071
5°	14033	14043	14106
10°	14041	14048	14122
15°	14043	14041	14074
20°	14039	14007	14010
25°	14018	13966	13949
30°	13995	13911	13919
35°	13930	13843	13647
40°	13830	13689	12999
45°	13655	13218	12640
50°	13326	12514	11447
55°	12720	11703	10122
60°	11804	10443	9128
65°	10492	9041	8394
70°	8707	8080	7912
75°	7042	7394	7486
80°	5594	7072	7042
85°	4380	7597	7248



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	991.8	3.5
10°-20°	2852.7	10.2
20°-30°	4349.9	15.5
30°-40°	5262.7	18.7
40°-50°	5330.7	19.0
50°-60°	4405.9	15.7
60°-70°	2910.0	10.4
70°-80°	1517.4	5.4
80°-90°	475.7	1.7
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°	8194.4	29.2
0°-40°	13457.2	47.9
0°-60°	23193.8	82.5
0°-90°	28097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28097.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10458	10458	10458	10458	10458	
5°	10390	10453	10398	10443	10444	988
15°	10081	10133	10080	10111	10104	2847
25°	9442	9480	9407	9431	9396	4354
35°	8480	8492	8428	8416	8308	5304
45°	7176	7157	6946	6730	6643	5526
55°	5422	5342	4989	4504	4315	4833
65°	3296	3200	2840	2655	2636	3255
75°	1355	1378	1422	1441	1440	1476
85°	284	365	492	488	470	344
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10457.9	10457.9	10457.9	10457.9	10457.9
2.5°	10413.9	10475.4	10424.0	10469.2	10505.6
5°	10390.1	10452.8	10397.6	10442.8	10444.1
7.5°	10343.6	10406.4	10349.9	10395.1	10393.8
10°	10277.1	10336.1	10282.1	10336.1	10336.1
12.5°	10186.7	10244.4	10191.7	10241.9	10234.4
15°	10081.2	10132.7	10080.0	10111.4	10103.8
17.5°	9956.9	10003.4	9944.4	9970.7	9955.7
20°	9805.0	9847.7	9782.4	9816.3	9784.9
22.5°	9634.3	9674.5	9607.9	9633.0	9597.9
25°	9442.2	9479.9	9407.1	9430.9	9395.8
27.5°	9235.1	9269.0	9187.4	9216.2	9188.6
30°	9007.8	9024.1	8953.8	8991.5	8958.9
32.5°	8754.2	8764.3	8702.7	8736.6	8681.4
35°	8480.5	8491.8	8427.8	8416.5	8308.5
37.5°	8188.0	8193.0	8132.8	8031.1	7852.8
40°	7874.2	7871.6	7793.8	7559.0	7400.9
42.5°	7539.0	7537.7	7400.9	7133.4	7043.1
45°	7176.1	7157.3	6946.4	6730.4	6642.6
47.5°	6786.9	6766.9	6471.8	6299.8	6100.2
50°	6366.4	6331.2	5978.4	5743.7	5468.7
52.5°	5913.1	5859.2	5500.1	5121.0	4861.1
55°	5422.3	5341.9	4989.1	4504.5	4315.0
57.5°	4911.3	4792.0	4449.3	3977.3	3822.8
60°	4386.5	4253.4	3880.6	3492.6	3392.2
62.5°	3846.7	3714.9	3334.5	3041.9	2986.7
65°	3295.5	3200.1	2839.8	2655.3	2636.4
67.5°	2730.6	2696.7	2421.8	2327.6	2320.1
70°	2213.4	2207.1	2053.9	2006.2	2011.2
72.5°	1768.9	1761.4	1738.8	1714.9	1716.2
75°	1354.6	1378.5	1422.4	1441.3	1440.0
77.5°	1010.6	1059.6	1152.5	1190.2	1183.9
80°	721.9	794.7	912.7	947.9	908.9
82.5°	480.8	557.4	696.8	701.8	670.4
85°	283.7	365.3	492.1	488.4	469.5
87.5°	140.6	219.7	295.0	282.5	269.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)