

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-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 (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-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

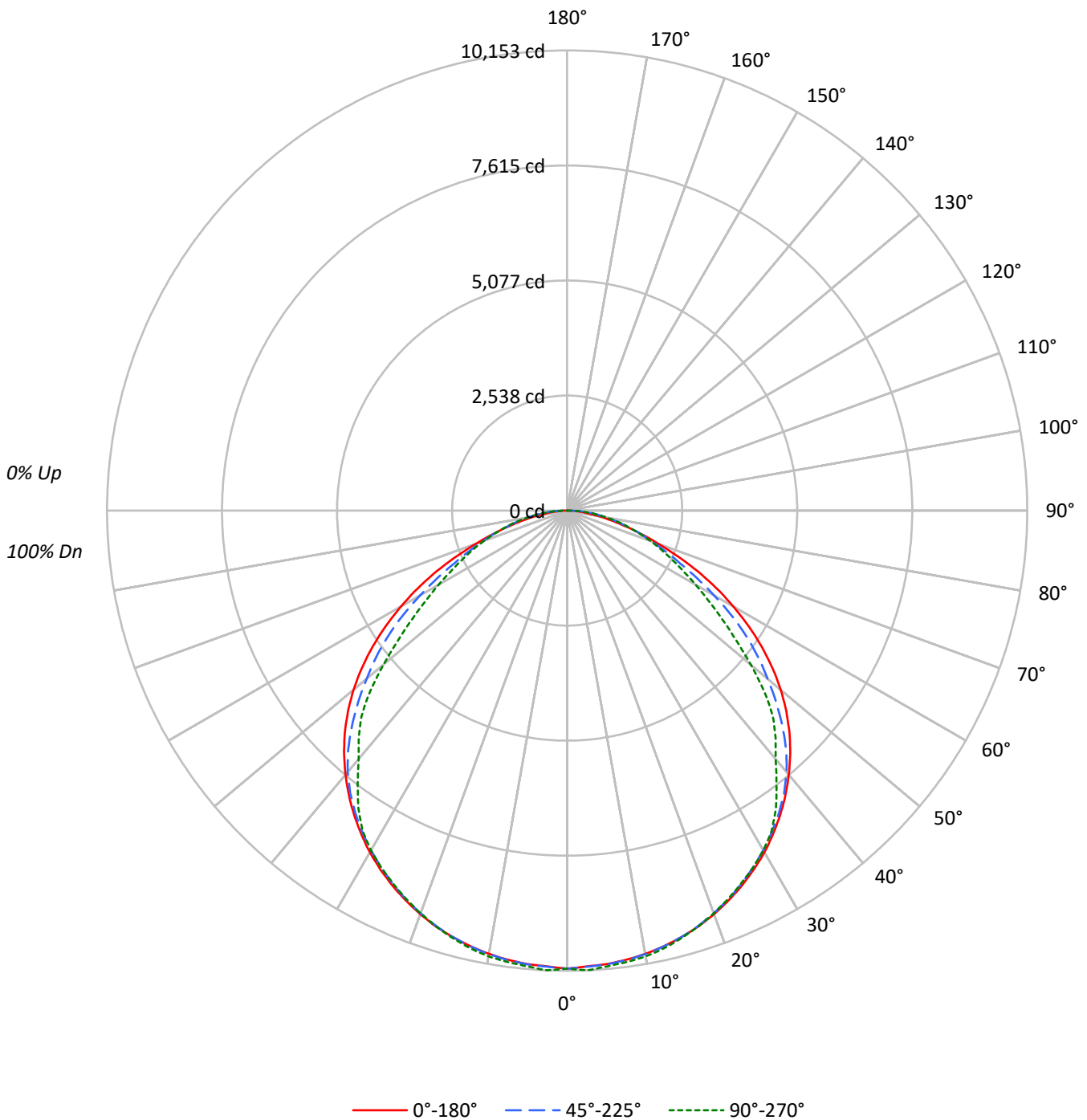
Lumens per Lamp: N/A
Luminaire Lumens: 27155.0 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	13599	13599	13599
5°	13563	13572	13633
10°	13570	13577	13648
15°	13572	13570	13602
20°	13569	13537	13541
25°	13548	13497	13481
30°	13526	13445	13452
35°	13463	13379	13190
40°	13367	13230	12563
45°	13197	12775	12216
50°	12879	12095	11063
55°	12293	11311	9783
60°	11408	10093	8822
65°	10140	8738	8112
70°	8415	7809	7647
75°	6806	7146	7235
80°	5406	6835	6807
85°	4233	7342	7006



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	958.5	3.5
10°-20°	2757.1	10.2
20°-30°	4204.1	15.5
30°-40°	5086.3	18.7
40°-50°	5152.0	19.0
50°-60°	4258.2	15.7
60°-70°	2812.5	10.4
70°-80°	1466.5	5.4
80°-90°	459.8	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°	7919.7	29.2
0°-40°	13006.0	47.9
0°-60°	22416.2	82.5
0°-90°	27155.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27155.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10107	10107	10107	10107	10107	
5°	10042	10102	10049	10093	10094	955
15°	9743	9793	9742	9772	9765	2751
25°	9126	9162	9092	9115	9081	4208
35°	8196	8207	8145	8134	8030	5127
45°	6936	6917	6714	6505	6420	5340
55°	5240	5163	4822	4354	4170	4671
65°	3185	3093	2745	2566	2548	3146
75°	1309	1332	1375	1393	1392	1426
85°	274	353	476	472	454	333
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10107.2	10107.2	10107.2	10107.2	10107.2
2.5°	10064.8	10124.2	10074.5	10118.2	10153.4
5°	10041.7	10102.4	10049.0	10092.7	10093.9
7.5°	9996.8	10057.5	10002.9	10046.6	10045.4
10°	9932.5	9989.5	9937.4	9989.5	9989.5
12.5°	9845.2	9901.0	9850.0	9898.5	9891.3
15°	9743.2	9793.0	9742.0	9772.4	9765.1
17.5°	9623.1	9668.0	9611.0	9636.5	9621.9
20°	9476.3	9517.6	9454.5	9487.2	9456.9
22.5°	9311.3	9350.1	9285.8	9310.1	9276.1
25°	9125.6	9162.0	9091.7	9114.7	9080.7
27.5°	8925.4	8958.2	8879.3	8907.2	8880.5
30°	8705.8	8721.6	8653.6	8690.0	8658.5
32.5°	8460.7	8470.4	8411.0	8443.7	8390.3
35°	8196.2	8207.1	8145.3	8134.3	8030.0
37.5°	7913.5	7918.4	7860.1	7761.8	7589.5
40°	7610.2	7607.7	7532.5	7305.6	7152.7
42.5°	7286.2	7285.0	7152.7	6894.3	6806.9
45°	6935.5	6917.3	6713.5	6504.8	6419.9
47.5°	6559.4	6540.0	6254.8	6088.6	5895.7
50°	6152.9	6118.9	5778.0	5551.1	5285.4
52.5°	5714.9	5662.7	5315.7	4949.3	4698.1
55°	5240.5	5162.8	4821.9	4353.5	4170.3
57.5°	4746.6	4631.4	4300.1	3843.9	3694.7
60°	4239.5	4110.8	3750.5	3375.6	3278.5
62.5°	3717.7	3590.3	3222.7	2940.0	2886.6
65°	3185.1	3092.8	2744.6	2566.2	2548.0
67.5°	2639.0	2606.3	2340.6	2249.6	2242.3
70°	2139.1	2133.1	1985.0	1938.9	1943.8
72.5°	1709.6	1702.3	1680.5	1657.4	1658.7
75°	1309.2	1332.3	1374.7	1392.9	1391.7
77.5°	976.8	1024.1	1113.9	1150.3	1144.2
80°	697.7	768.1	882.1	916.1	878.5
82.5°	464.7	538.7	673.4	678.3	647.9
85°	274.2	353.1	475.6	472.0	453.8
87.5°	135.9	212.3	285.1	273.0	260.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)