

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-L840-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-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

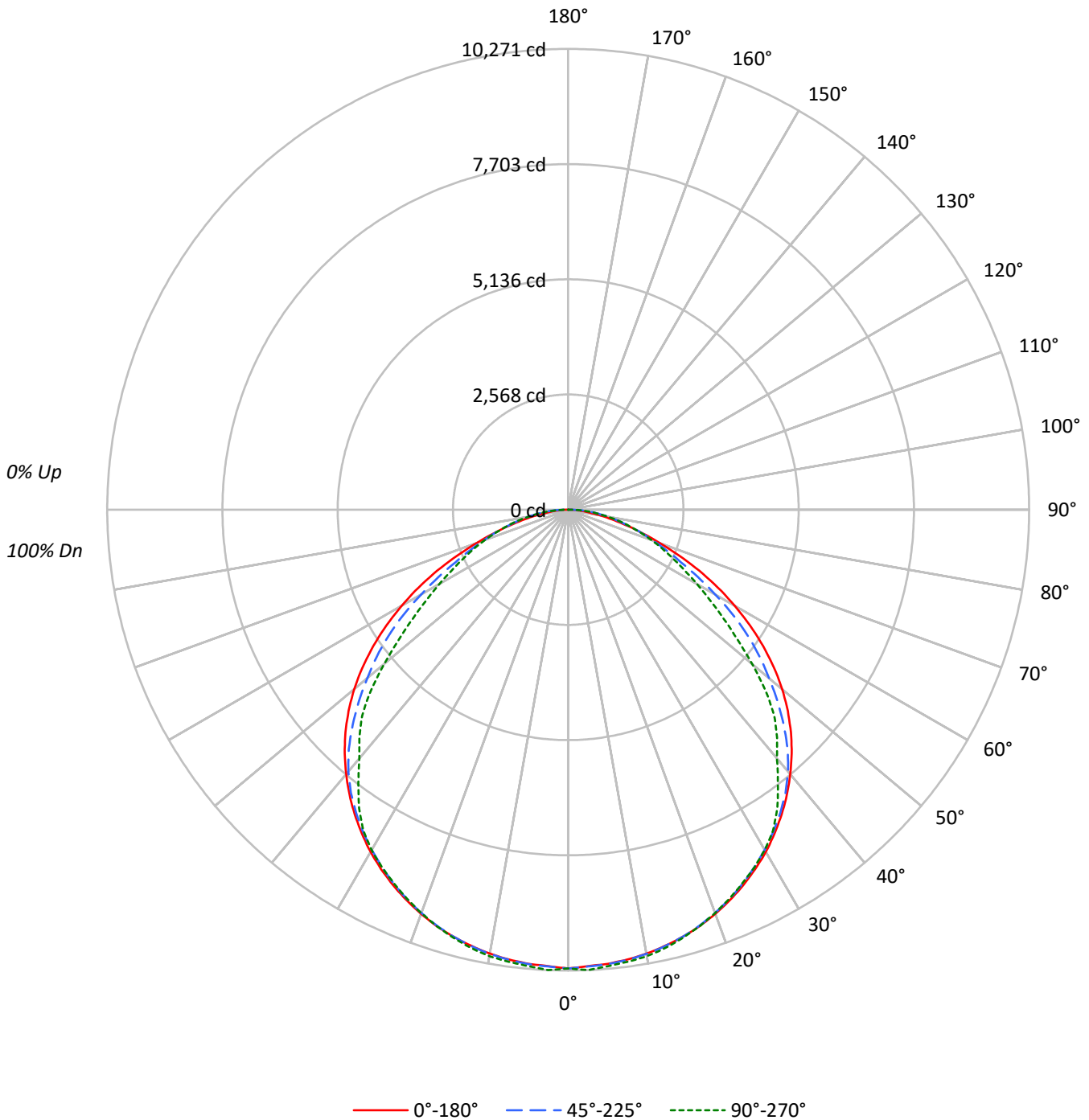
Lumens per Lamp: N/A
Luminaire Lumens: 27470.0 lumens
Efficiency: N/A
Efficacy: 152.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	13757	13757	13757
5°	13720	13730	13791
10°	13728	13734	13806
15°	13729	13728	13760
20°	13726	13694	13698
25°	13705	13654	13638
30°	13683	13601	13608
35°	13619	13534	13343
40°	13522	13384	12709
45°	13350	12923	12357
50°	13029	12235	11192
55°	12436	11442	9896
60°	11541	10210	8925
65°	10258	8839	8206
70°	8513	7900	7735
75°	6885	7230	7319
80°	5469	6914	6886
85°	4282	7429	7087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	969.6	3.5
10°-20°	2789.1	10.2
20°-30°	4252.8	15.5
30°-40°	5145.3	18.7
40°-50°	5211.8	19.0
50°-60°	4307.6	15.7
60°-70°	2845.1	10.4
70°-80°	1483.6	5.4
80°-90°	465.1	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°	8011.5	29.2
0°-40°	13156.9	47.9
0°-60°	22676.2	82.5
0°-90°	27470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10224	10224	10224	10224	10224	
5°	10158	10220	10166	10210	10211	966
15°	9856	9907	9855	9886	9878	2783
25°	9232	9268	9197	9220	9186	4257
35°	8291	8302	8240	8229	8123	5186
45°	7016	6998	6791	6580	6494	5402
55°	5301	5223	4878	4404	4219	4725
65°	3222	3129	2776	2596	2578	3182
75°	1324	1348	1391	1409	1408	1443
85°	277	357	481	478	459	337
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10224.5	10224.5	10224.5	10224.5	10224.5
2.5°	10181.5	10241.7	10191.3	10235.5	10271.1
5°	10158.2	10219.6	10165.6	10209.8	10211.0
7.5°	10112.8	10174.2	10118.9	10163.1	10161.9
10°	10047.7	10105.4	10052.6	10105.4	10105.4
12.5°	9959.4	10015.8	9964.3	10013.4	10006.0
15°	9856.3	9906.6	9855.0	9885.7	9878.4
17.5°	9734.7	9780.2	9722.5	9748.2	9733.5
20°	9586.2	9628.0	9564.1	9597.3	9566.6
22.5°	9419.3	9458.6	9393.5	9418.1	9383.7
25°	9231.5	9268.3	9197.1	9220.5	9186.1
27.5°	9029.0	9062.1	8982.3	9010.6	8983.6
30°	8806.8	8822.8	8754.0	8790.9	8758.9
32.5°	8558.9	8568.7	8508.5	8541.7	8487.7
35°	8291.3	8302.3	8239.7	8228.7	8123.1
37.5°	8005.3	8010.2	7951.3	7851.9	7677.6
40°	7698.4	7696.0	7619.9	7390.4	7235.7
42.5°	7370.7	7369.5	7235.7	6974.3	6885.9
45°	7016.0	6997.6	6791.4	6580.3	6494.3
47.5°	6635.5	6615.8	6327.4	6159.2	5964.1
50°	6224.3	6189.9	5845.0	5615.5	5346.7
52.5°	5781.2	5728.4	5377.4	5006.7	4752.6
55°	5301.3	5222.7	4877.8	4404.0	4218.7
57.5°	4801.7	4685.1	4350.0	3888.5	3737.5
60°	4288.6	4158.5	3794.0	3414.7	3316.5
62.5°	3760.8	3632.0	3260.1	2974.1	2920.1
65°	3222.0	3128.7	2776.4	2596.0	2577.6
67.5°	2669.7	2636.5	2367.7	2275.7	2268.3
70°	2164.0	2157.8	2008.1	1961.4	1966.3
72.5°	1729.4	1722.1	1700.0	1676.7	1677.9
75°	1324.4	1347.7	1390.7	1409.1	1407.9
77.5°	988.1	1036.0	1126.8	1163.6	1157.5
80°	705.8	777.0	892.3	926.7	888.7
82.5°	470.1	545.0	681.2	686.1	655.4
85°	277.4	357.2	481.2	477.5	459.1
87.5°	137.5	214.8	288.4	276.2	263.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)