

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-L740-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-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

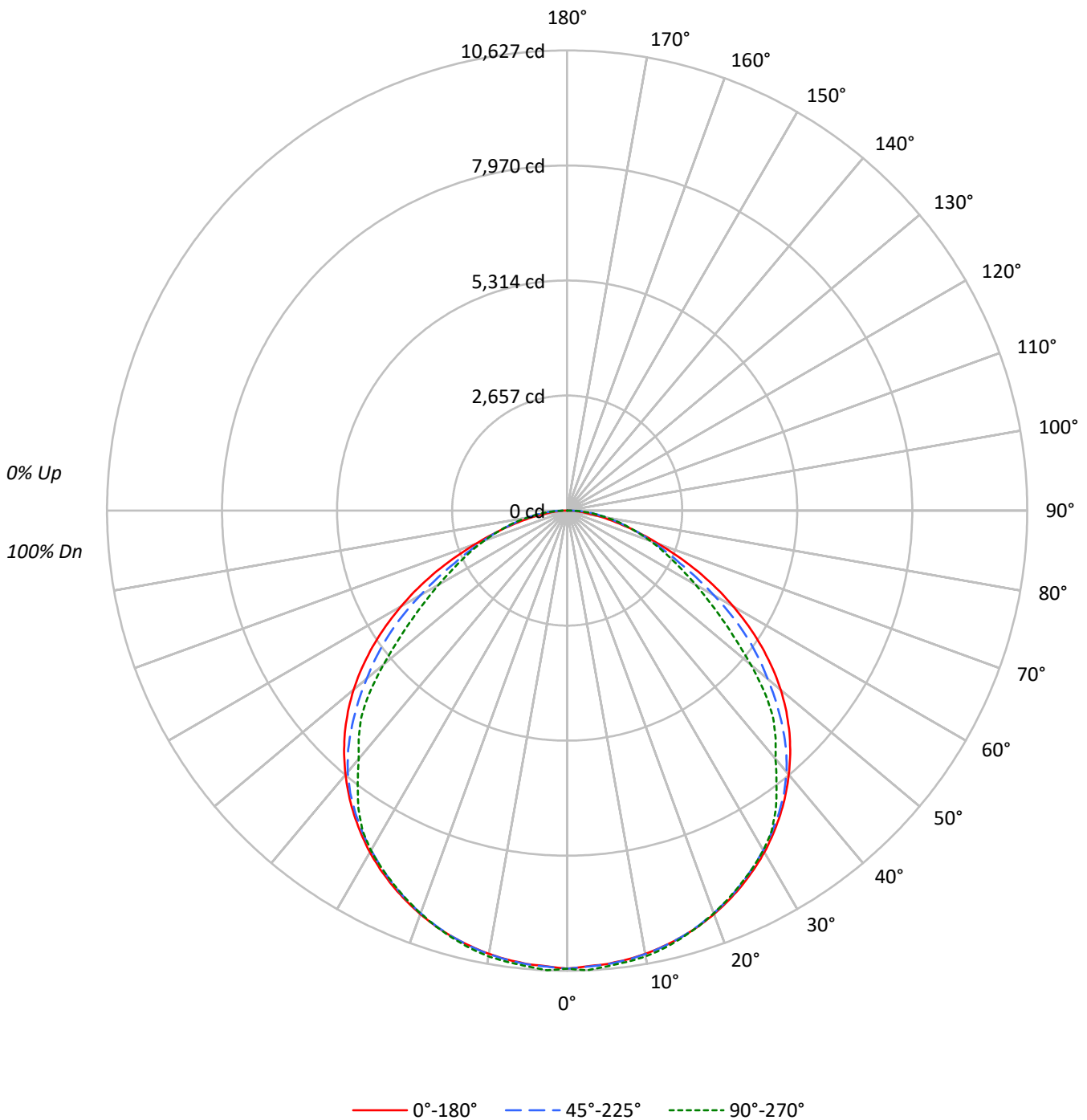
Lumens per Lamp: N/A
Luminaire Lumens: 28422.0 lumens
Efficiency: N/A
Efficacy: 157.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	14234	14234	14234
5°	14196	14206	14269
10°	14203	14210	14285
15°	14205	14203	14237
20°	14202	14169	14172
25°	14180	14127	14110
30°	14157	14072	14080
35°	14091	14003	13805
40°	13990	13848	13149
45°	13813	13370	12786
50°	13480	12659	11580
55°	12867	11839	10239
60°	11941	10563	9234
65°	10613	9146	8491
70°	8808	8174	8004
75°	7124	7480	7573
80°	5658	7154	7125
85°	4431	7685	7333



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1003.2	3.5
10°-20°	2885.7	10.2
20°-30°	4400.2	15.5
30°-40°	5323.6	18.7
40°-50°	5392.4	19.0
50°-60°	4456.9	15.7
60°-70°	2943.7	10.4
70°-80°	1535.0	5.4
80°-90°	481.2	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
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0°-30°	8289.2	29.2
0°-40°	13612.8	47.9
0°-60°	23462.1	82.5
0°-90°	28422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10579	10579	10579	10579	10579	
5°	10510	10574	10518	10564	10565	###
15°	10198	10250	10197	10228	10221	2880
25°	9551	9590	9516	9540	9504	4404
35°	8579	8590	8525	8514	8405	5366
45°	7259	7240	7027	6808	6719	5590
55°	5485	5404	5047	4557	4365	4889
65°	3334	3237	2873	2686	2667	3293
75°	1370	1394	1439	1458	1457	1493
85°	287	370	498	494	475	348
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10578.8	10578.8	10578.8	10578.8	10578.8
2.5°	10534.4	10596.6	10544.5	10590.3	10627.1
5°	10510.3	10573.7	10517.9	10563.6	10564.9
7.5°	10463.3	10526.8	10469.6	10515.3	10514.1
10°	10396.0	10455.6	10401.0	10455.6	10455.6
12.5°	10304.5	10362.9	10309.6	10360.4	10352.8
15°	10197.8	10249.9	10196.6	10228.3	10220.7
17.5°	10072.1	10119.1	10059.4	10086.1	10070.8
20°	9918.4	9961.6	9895.6	9929.9	9898.1
22.5°	9745.7	9786.4	9719.1	9744.5	9708.9
25°	9551.4	9589.5	9515.9	9540.0	9504.4
27.5°	9341.9	9376.2	9293.6	9322.8	9294.9
30°	9112.0	9128.5	9057.4	9095.5	9062.5
32.5°	8855.5	8865.6	8803.4	8837.7	8781.8
35°	8578.6	8590.1	8525.3	8513.9	8404.6
37.5°	8282.7	8287.8	8226.8	8124.0	7943.6
40°	7965.2	7962.7	7884.0	7646.5	7486.5
42.5°	7626.2	7624.9	7486.5	7216.0	7124.5
45°	7259.1	7240.1	7026.7	6808.3	6719.4
47.5°	6865.4	6845.1	6546.7	6372.7	6170.8
50°	6440.0	6404.4	6047.6	5810.1	5532.0
52.5°	5981.5	5926.9	5563.7	5180.2	4917.3
55°	5485.0	5403.7	5046.9	4556.6	4364.9
57.5°	4968.1	4847.5	4500.8	4023.3	3867.1
60°	4437.3	4302.6	3925.5	3533.0	3431.5
62.5°	3891.2	3757.8	3373.0	3077.1	3021.3
65°	3333.7	3237.1	2872.7	2686.0	2666.9
67.5°	2762.2	2727.9	2449.8	2354.5	2346.9
70°	2239.0	2232.6	2077.7	2029.4	2034.5
72.5°	1789.4	1781.8	1758.9	1734.8	1736.0
75°	1370.3	1394.4	1438.9	1457.9	1456.7
77.5°	1022.3	1071.9	1165.8	1203.9	1197.6
80°	730.2	803.9	923.3	958.8	919.5
82.5°	486.4	563.9	704.8	709.9	678.2
85°	287.0	369.6	497.8	494.0	475.0
87.5°	142.2	222.2	298.4	285.7	273.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)