

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-A-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 (P23761)
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-A-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

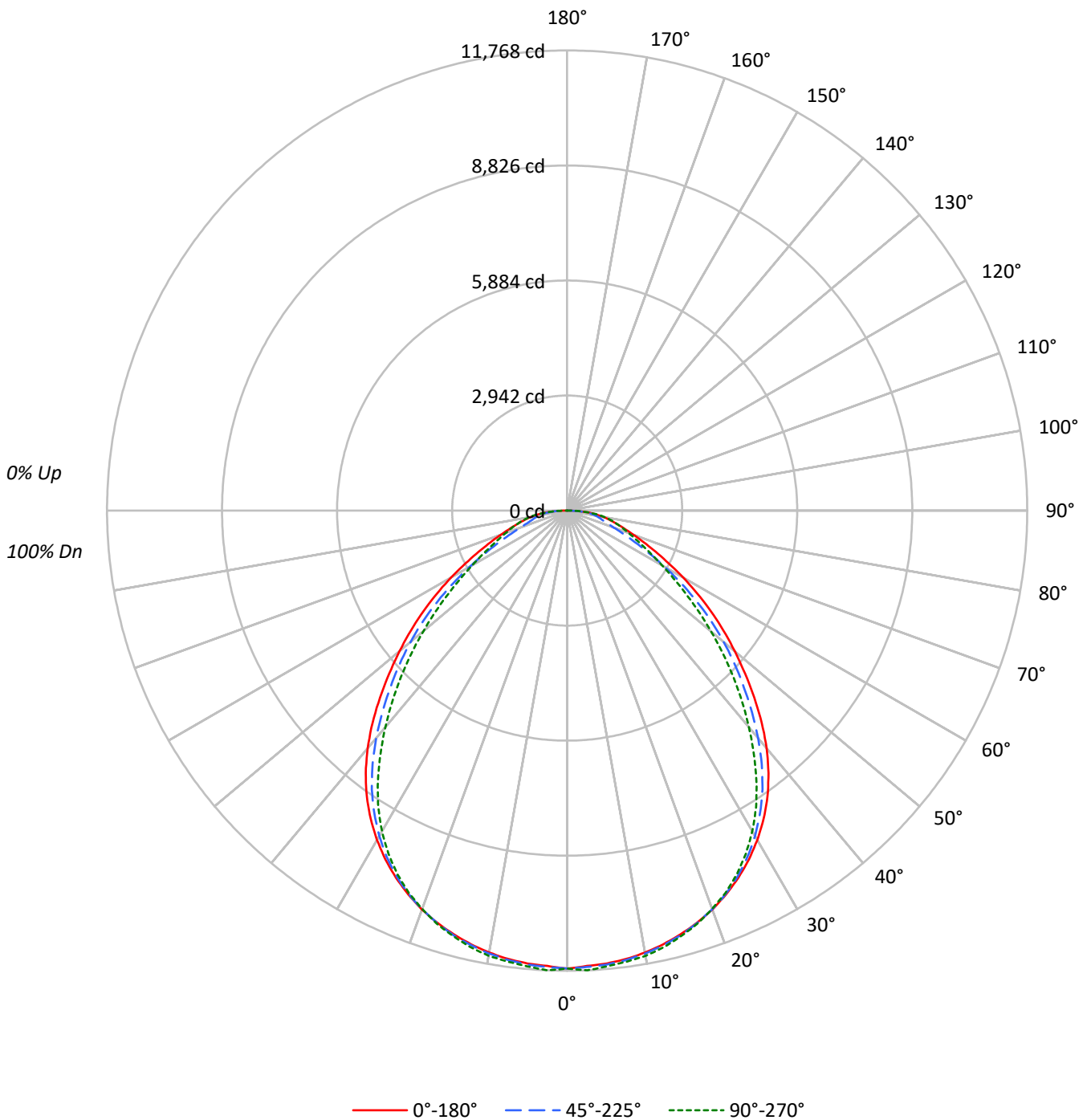
Lumens per Lamp: N/A
Luminaire Lumens: 26903.0 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15757	15757	15757
5°	15702	15737	15802
10°	15679	15715	15795
15°	15627	15658	15695
20°	15545	15534	15522
25°	15377	15324	15237
30°	15111	14928	14711
35°	14672	14303	13863
40°	13942	13344	12703
45°	12880	12161	11425
50°	11708	10951	10050
55°	10528	9481	8688
60°	9213	7748	7539
65°	7943	6093	6804
70°	7082	4973	6557
75°	6784	4854	6852
80°	7338	5742	7634
85°	8238	6911	8319



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1109.9	4.1
10°-20°	3176.6	11.8
20°-30°	4751.9	17.7
30°-40°	5421.5	20.2
40°-50°	4935.0	18.3
50°-60°	3623.8	13.5
60°-70°	2139.7	8.0
70°-80°	1226.2	4.6
80°-90°	518.5	1.9
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°	9038.4	33.6
0°-40°	14459.9	53.7
0°-60°	23018.7	85.6
0°-90°	26903.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26903.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11711	11711	11711	11711	11711	
5°	11626	11698	11652	11698	11699	###
15°	11219	11281	11241	11281	11268	3166
25°	10358	10394	10322	10318	10264	4768
35°	8932	8889	8708	8559	8440	5565
45°	6769	6729	6391	6105	6004	5217
55°	4488	4281	4042	3748	3704	4014
65°	2495	2178	1914	2047	2137	2511
75°	1305	1119	934	1218	1318	1407
85°	534	493	448	528	539	558
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11711.3	11711.3	11711.3	11711.3	<i>11711.3</i>
2.5°	<i>11657.2</i>	<i>11724.5</i>	<i>11682.3</i>	<i>11728.5</i>	<i>11768.1</i>
5°	11625.5	11698.1	11651.9	11698.1	<i>11699.4</i>
7.5°	11567.4	11634.7	11589.8	11640.0	<i>11634.7</i>
10°	11476.2	11543.6	11502.6	11556.8	<i>11560.8</i>
12.5°	11360.0	11424.7	11382.5	11444.5	<i>11434.0</i>
15°	11218.7	11280.8	11241.1	11280.8	<i>11267.5</i>
17.5°	11052.3	11109.1	11057.5	11101.1	<i>11078.7</i>
20°	10856.8	10904.3	10848.9	10889.8	<i>10840.9</i>
22.5°	10623.0	10665.3	10607.2	10629.6	<i>10579.4</i>
25°	10357.5	10394.5	10321.9	10317.9	<i>10263.8</i>
27.5°	10061.7	10081.5	9989.0	9957.3	<i>9895.3</i>
30°	9726.2	9731.5	9608.7	9549.2	<i>9468.7</i>
32.5°	9349.8	9336.6	9179.4	9090.9	<i>8991.8</i>
35°	8932.4	8888.8	8707.9	8558.6	<i>8439.8</i>
37.5°	8460.9	8392.2	8175.6	7955.0	<i>7841.5</i>
40°	7937.9	7857.3	7597.1	7323.7	<i>7232.6</i>
42.5°	7368.6	7299.9	6993.5	6708.2	<i>6618.4</i>
45°	6769.0	6729.4	6391.2	6104.6	<i>6004.3</i>
47.5°	6169.3	6140.3	5810.1	5518.2	<i>5396.7</i>
50°	5593.5	5530.1	5231.6	4912.0	<i>4801.0</i>
52.5°	5034.8	4905.4	4642.5	4315.0	<i>4233.1</i>
55°	4488.0	4280.6	4041.6	3748.4	<i>3703.5</i>
57.5°	3946.5	3678.4	3445.9	3226.7	<i>3225.3</i>
60°	3423.5	3117.0	2879.3	2764.4	<i>2801.4</i>
62.5°	2933.4	2619.1	2361.5	2369.5	<i>2436.8</i>
65°	2494.9	2178.0	1913.8	2047.2	<i>2137.0</i>
67.5°	2118.5	1816.1	1548.0	1796.3	<i>1882.1</i>
70°	1800.2	1526.8	1264.0	1574.4	<i>1666.8</i>
72.5°	1532.1	1302.3	1065.9	1389.5	<i>1483.2</i>
75°	1304.9	1118.7	933.8	1217.8	<i>1318.1</i>
77.5°	1120.0	954.9	837.4	1054.0	<i>1158.3</i>
80°	947.0	801.7	741.0	895.5	<i>985.3</i>
82.5°	750.2	649.8	614.2	727.7	<i>774.0</i>
85°	533.6	492.6	447.7	528.3	<i>538.9</i>
87.5°	293.2	303.8	250.9	303.8	<i>305.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)