

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-AWG-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 (P23764)
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-AWG-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

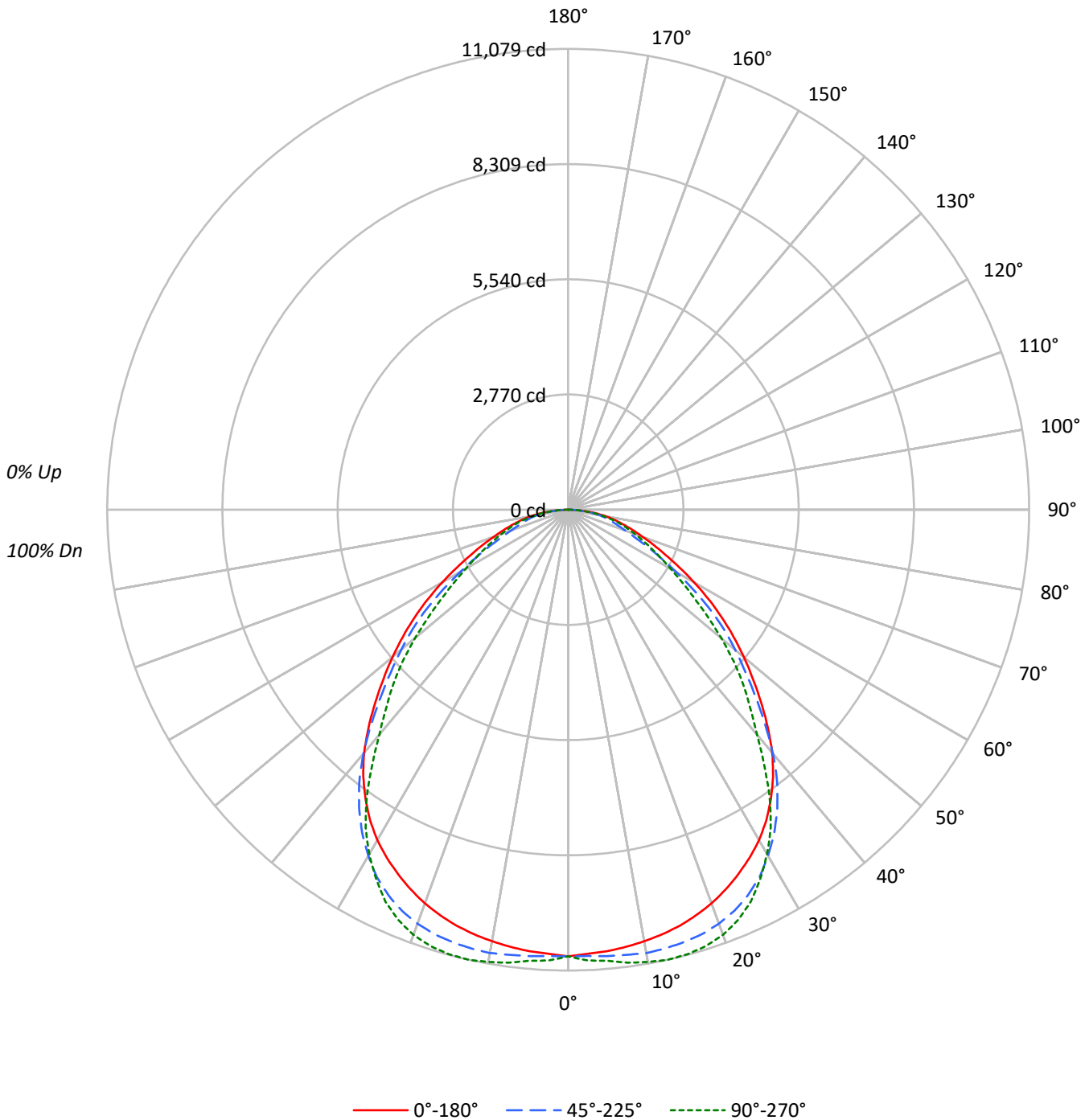
Lumens per Lamp: N/A
Luminaire Lumens: 26617.0 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57					55				
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50					48				
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44					42				
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40					38				
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14447	14447	14447
5°	14391	14552	14700
10°	14394	14786	15083
15°	14422	14991	15412
20°	14419	15162	15570
25°	14357	15182	15428
30°	14250	14929	14850
35°	13948	14389	13865
40°	13403	13441	12395
45°	12475	12118	11332
50°	11531	10958	10041
55°	10556	9711	8664
60°	9413	8061	7652
65°	8255	6634	7030
70°	7454	5714	6694
75°	7124	5601	6675
80°	7181	5930	6513
85°	6362	5431	5686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1031.4	3.9
10°-20°	3039.5	11.4
20°-30°	4662.2	17.5
30°-40°	5362.2	20.1
40°-50°	4890.7	18.4
50°-60°	3665.6	13.8
60°-70°	2254.8	8.5
70°-80°	1292.1	4.9
80°-90°	418.3	1.6
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°	8733.1	32.8
0°-40°	14095.4	53.0
0°-60°	22651.7	85.1
0°-90°	26617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10737	10737	10737	10737	10737	
5°	10655	10763	10774	10863	10884	###
15°	10354	10584	10762	10992	11064	2923
25°	9671	9948	10226	10384	10392	4456
35°	8492	8658	8760	8616	8441	5296
45°	6556	6698	6369	6040	5955	5060
55°	4500	4333	4140	3774	3694	4020
65°	2593	2319	2084	2148	2208	2607
75°	1370	1228	1077	1234	1284	1465
85°	412	389	352	371	368	460
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10737.1	10737.1	10737.1	10737.1	10737.1
2.5°	10686.4	10763.1	10738.4	10801.4	10848.0
5°	10654.9	10763.1	10774.0	10863.0	10883.6
7.5°	10601.5	10742.6	10791.8	10949.3	10984.9
10°	10535.8	10705.6	10822.0	10991.7	11039.6
12.5°	10456.4	10653.6	10801.4	11010.9	11079.3
15°	10353.8	10583.8	10761.7	10991.7	11064.3
17.5°	10223.7	10490.7	10698.7	10924.6	10999.9
20°	10070.4	10352.4	10589.2	10820.6	10874.0
22.5°	9885.6	10168.9	10438.6	10646.7	10675.5
25°	9670.6	9948.5	10226.4	10383.9	10392.1
27.5°	9436.5	9695.3	9955.4	10040.3	10003.3
30°	9172.3	9403.7	9609.0	9626.8	9558.4
32.5°	8858.8	9066.9	9213.4	9175.0	9060.1
35°	8491.9	8657.6	8760.2	8616.5	8441.3
37.5°	8089.4	8214.0	8248.2	7936.1	7736.2
40°	7630.8	7737.6	7652.7	7218.7	7057.2
42.5°	7102.4	7225.6	7007.9	6579.4	6480.9
45°	6556.1	6698.5	6368.6	6040.0	5955.2
47.5°	6020.9	6150.9	5777.2	5513.0	5387.0
50°	5508.9	5565.0	5235.1	4936.6	4797.0
52.5°	5005.1	4948.9	4714.8	4343.8	4220.6
55°	4499.9	4332.9	4139.9	3774.3	3693.6
57.5°	3993.4	3760.6	3549.8	3269.2	3237.7
60°	3497.8	3211.7	2995.4	2828.4	2843.4
62.5°	3025.5	2733.9	2502.5	2449.1	2506.6
65°	2592.9	2319.1	2083.6	2148.0	2208.2
67.5°	2232.8	1970.0	1730.4	1894.7	1942.6
70°	1894.7	1682.5	1452.5	1664.7	1701.7
72.5°	1625.0	1444.3	1244.4	1451.1	1482.6
75°	1370.4	1228.0	1077.4	1233.5	1284.1
77.5°	1148.6	1030.9	928.2	1019.9	1074.7
80°	926.8	826.9	765.3	806.3	840.6
82.5°	679.0	614.7	569.5	587.3	592.8
85°	412.1	388.8	351.8	371.0	368.3
87.5°	135.5	154.7	162.9	146.5	138.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)