

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-CLWG-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-W-CLWG-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27889.0 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

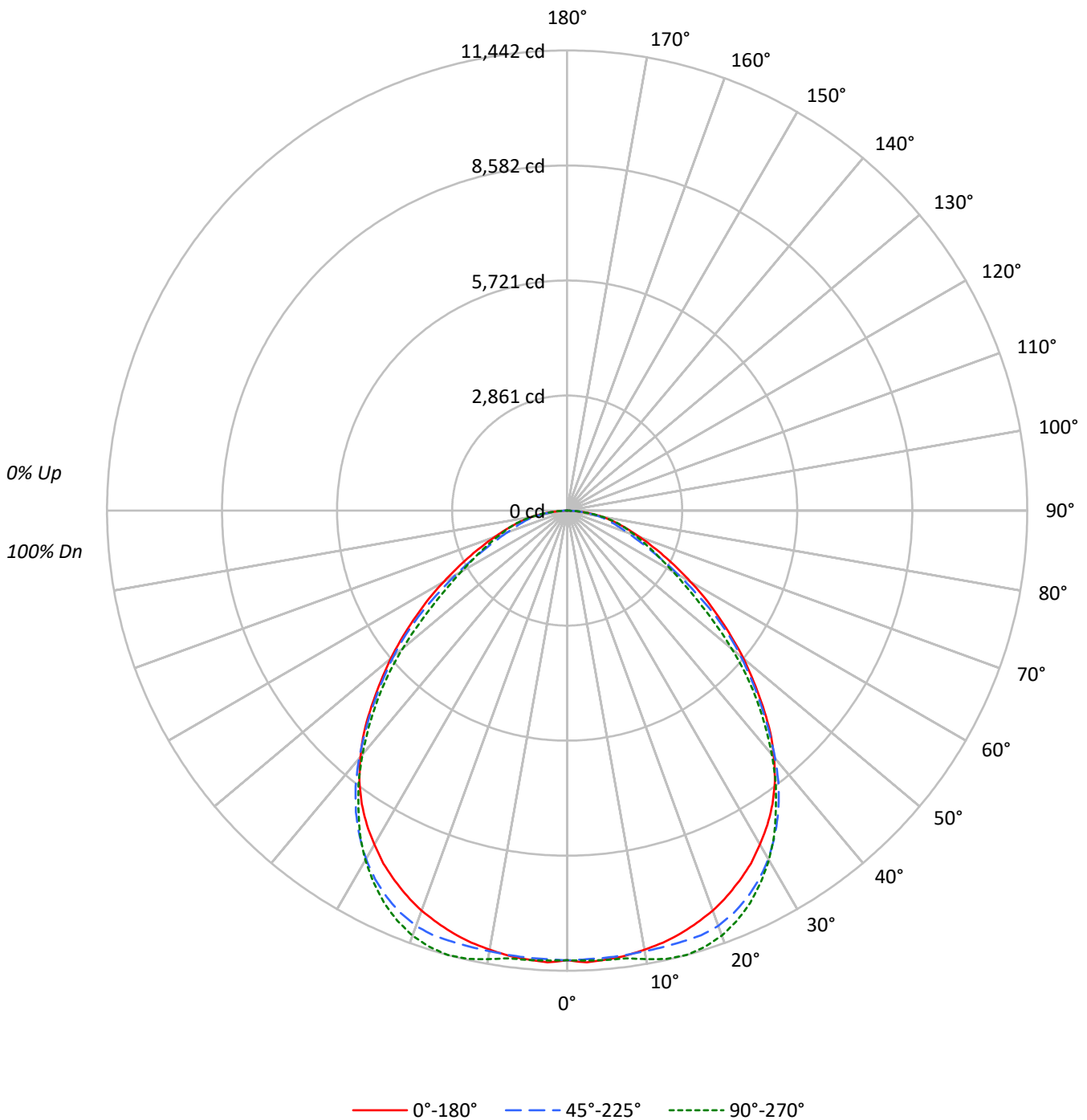
Input Watts (W): 180
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15046	15046	15046
5°	15135	15072	15146
10°	15148	15199	15471
15°	15167	15452	15939
20°	15157	15735	16103
25°	15064	15749	15981
30°	14891	15541	15590
35°	14625	15037	14857
40°	14048	14135	13912
45°	13090	12953	12689
50°	11985	11791	11188
55°	10765	10366	9459
60°	9547	8577	8166
65°	8412	7126	7411
70°	7523	6184	7058
75°	7048	6013	7138
80°	6861	6079	6794
85°	5477	4809	4986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1065.3	3.8
10°-20°	3137.8	11.3
20°-30°	4827.1	17.3
30°-40°	5633.5	20.2
40°-50°	5235.1	18.8
50°-60°	3880.4	13.9
60°-70°	2372.2	8.5
70°-80°	1351.2	4.8
80°-90°	386.4	1.4
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°	9030.2	32.4
0°-40°	14663.8	52.6
0°-60°	23779.2	85.3
0°-90°	27889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27889.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11183	11183	11183	11183	11183	
5°	11206	11154	11160	11151	11214	###
15°	10888	10883	11093	11312	11442	3073
25°	10147	10225	10609	10698	10764	4674
35°	8904	8973	9155	9080	9045	5548
45°	6879	6920	6807	6700	6669	5301
55°	4589	4474	4419	4104	4032	4118
65°	2642	2400	2238	2299	2328	2644
75°	1356	1272	1157	1318	1373	1451
85°	355	346	312	323	323	409
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11182.7	11182.7	11182.7	11182.7	11182.7
2.5°	11243.3	11179.8	11168.3	11142.3	11200.0
5°	11205.8	11153.8	11159.6	11151.0	11214.4
7.5°	11162.5	11125.0	11148.1	11145.2	11228.8
10°	11087.5	11067.3	11125.0	11188.5	11324.0
12.5°	11003.9	10983.7	11110.6	11272.1	11419.2
15°	10888.5	10882.7	11093.3	11312.5	11442.3
17.5°	10744.3	10752.9	11073.1	11260.6	11375.9
20°	10585.6	10600.0	10989.4	11142.3	11246.1
22.5°	10380.8	10429.9	10827.9	10954.8	11035.6
25°	10147.2	10225.1	10608.7	10698.1	10764.5
27.5°	9896.3	9974.1	10337.6	10383.7	10421.2
30°	9584.7	9694.4	10003.0	10008.7	10034.7
32.5°	9267.5	9365.5	9602.1	9576.1	9581.9
35°	8904.0	8973.3	9155.0	9080.0	9045.4
37.5°	8485.8	8523.3	8638.7	8526.2	8520.4
40°	7998.3	8047.4	8047.4	7891.6	7920.5
42.5°	7479.2	7496.5	7424.4	7277.3	7300.3
45°	6879.2	6919.6	6807.1	6700.4	6668.7
47.5°	6285.0	6325.4	6207.2	6083.1	6028.3
50°	5725.5	5705.3	5633.2	5422.6	5344.7
52.5°	5145.7	5082.3	5053.4	4744.8	4655.4
55°	4589.0	4473.7	4418.8	4104.5	4032.3
57.5°	4072.7	3865.0	3761.2	3516.0	3487.2
60°	3547.8	3314.1	3187.2	3028.6	3034.4
62.5°	3071.8	2826.7	2673.8	2627.7	2647.8
65°	2642.1	2399.8	2238.3	2298.8	2327.7
67.5°	2252.7	2053.7	1872.0	2013.3	2042.1
70°	1912.3	1753.7	1572.0	1779.7	1794.1
72.5°	1629.7	1499.9	1347.0	1543.1	1574.9
75°	1355.7	1272.0	1156.6	1318.2	1373.0
77.5°	1116.2	1049.9	983.6	1081.6	1142.2
80°	885.5	819.2	784.5	836.5	876.8
82.5°	625.9	582.6	548.0	585.5	605.7
85°	354.8	346.1	311.5	323.0	323.0
87.5°	80.8	92.3	103.8	95.2	80.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)