

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-LD5-12SE-N-CLWG-UNV-L840-ED1-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-N-CLWG-UNV-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

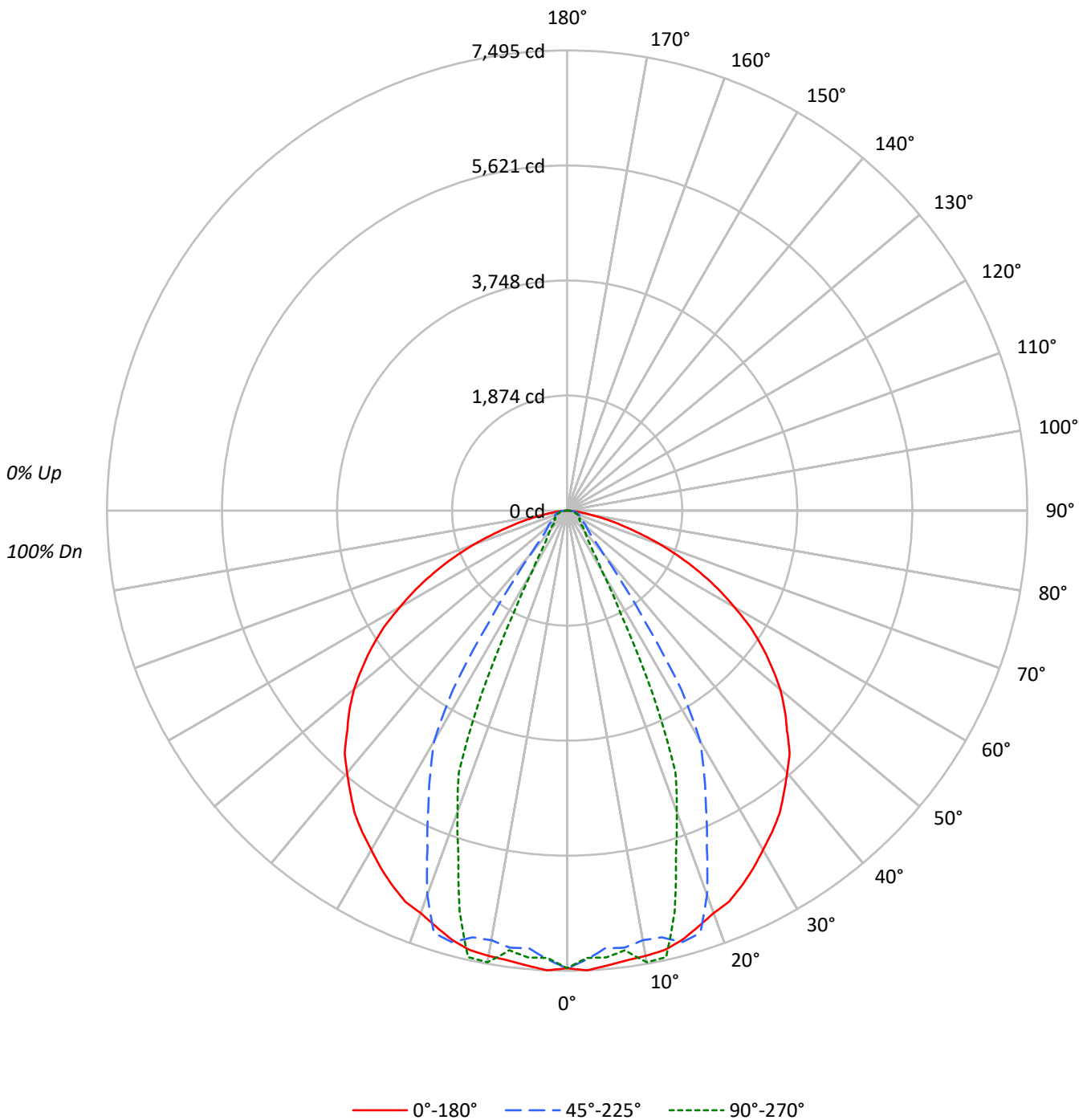
Lumens per Lamp: N/A
Luminaire Lumens: 10021.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
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





TEST NUMBER: P#

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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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10029	10029	10029
5°	10046	9663	9867
10°	10061	9710	10208
15°	10083	10136	9420
20°	9988	9533	7477
25°	10002	7947	4884
30°	9912	6733	1755
35°	9902	3647	987
40°	9790	1590	773
45°	9638	983	606
50°	9488	856	572
55°	9115	742	560
60°	8457	665	602
65°	7602	752	657
70°	6375	808	678
75°	4766	922	734
80°	2993	1071	837
85°	1993	1342	1226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.9	6.9
10°-20°	1950.9	19.5
20°-30°	2389.0	23.8
30°-40°	1876.1	18.7
40°-50°	1391.2	13.9
50°-60°	846.9	8.5
60°-70°	507.3	5.1
70°-80°	278.4	2.8
80°-90°	90.3	0.9
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°	5030.8	50.2
0°-40°	6906.9	68.9
0°-60°	9145.0	91.3
0°-90°	10021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7454	7454	7454	7454	7454	
5°	7438	7236	7155	7234	7305	707
15°	7239	7040	7276	6982	6763	2038
25°	6737	6758	5353	4199	3290	3101
35°	6028	5484	2220	743	601	3762
45°	5065	3637	516	391	318	3917
55°	3886	1002	316	268	239	3458
65°	2388	295	236	222	206	2359
75°	917	186	177	154	141	993
85°	129	102	87	80	79	158
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7454.1	7454.1	7454.1	7454.1	7454.1
2.5°	7494.8	7393.8	7316.5	7273.3	7290.9
5°	7438.0	7235.6	7154.7	7233.6	7305.4
7.5°	7388.8	7087.9	7179.3	7186.4	7224.0
10°	7363.7	7073.8	7107.0	7263.2	7471.7
12.5°	7330.5	7106.5	7118.0	7331.0	7448.6
15°	7238.6	7040.2	7276.3	6982.4	6762.9
17.5°	7104.5	6885.4	7210.0	6185.6	5887.2
20°	6975.4	6717.1	6657.9	5510.0	5222.1
22.5°	6892.0	6691.5	5947.5	4909.6	4612.2
25°	6737.2	6758.3	5353.2	4198.8	3290.0
27.5°	6566.9	6601.1	4827.7	2800.2	1884.9
30°	6380.1	6419.2	4333.4	1654.8	1129.3
32.5°	6210.8	5989.7	3460.8	1032.4	785.2
35°	6028.4	5483.8	2220.5	743.0	600.8
37.5°	5798.8	4952.3	1405.6	587.8	504.4
40°	5573.8	4475.1	905.3	501.9	440.1
42.5°	5363.3	4081.7	658.6	438.6	397.4
45°	5065.4	3637.1	516.4	391.3	318.5
47.5°	4807.7	3115.7	451.6	331.1	274.8
50°	4532.9	2382.2	408.9	294.4	273.3
52.5°	4206.8	1558.3	377.8	281.8	255.2
55°	3885.8	1002.2	316.5	267.8	238.6
57.5°	3539.2	635.5	279.3	259.7	249.2
60°	3142.8	428.5	247.2	246.2	223.6
62.5°	2776.1	352.2	238.6	236.1	211.5
65°	2387.8	295.4	236.1	222.0	206.5
67.5°	1999.9	253.2	213.5	203.0	189.4
70°	1620.6	231.6	205.5	200.9	172.3
72.5°	1230.8	190.9	182.4	170.3	143.2
75°	916.8	186.4	177.3	154.2	141.2
77.5°	620.4	171.8	161.3	138.2	127.6
80°	386.3	157.7	138.2	121.1	108.0
82.5°	229.6	131.6	113.5	100.0	91.4
85°	129.1	101.5	86.9	79.9	79.4
87.5°	27.6	36.7	29.1	27.6	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)