

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-L740-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-L740-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

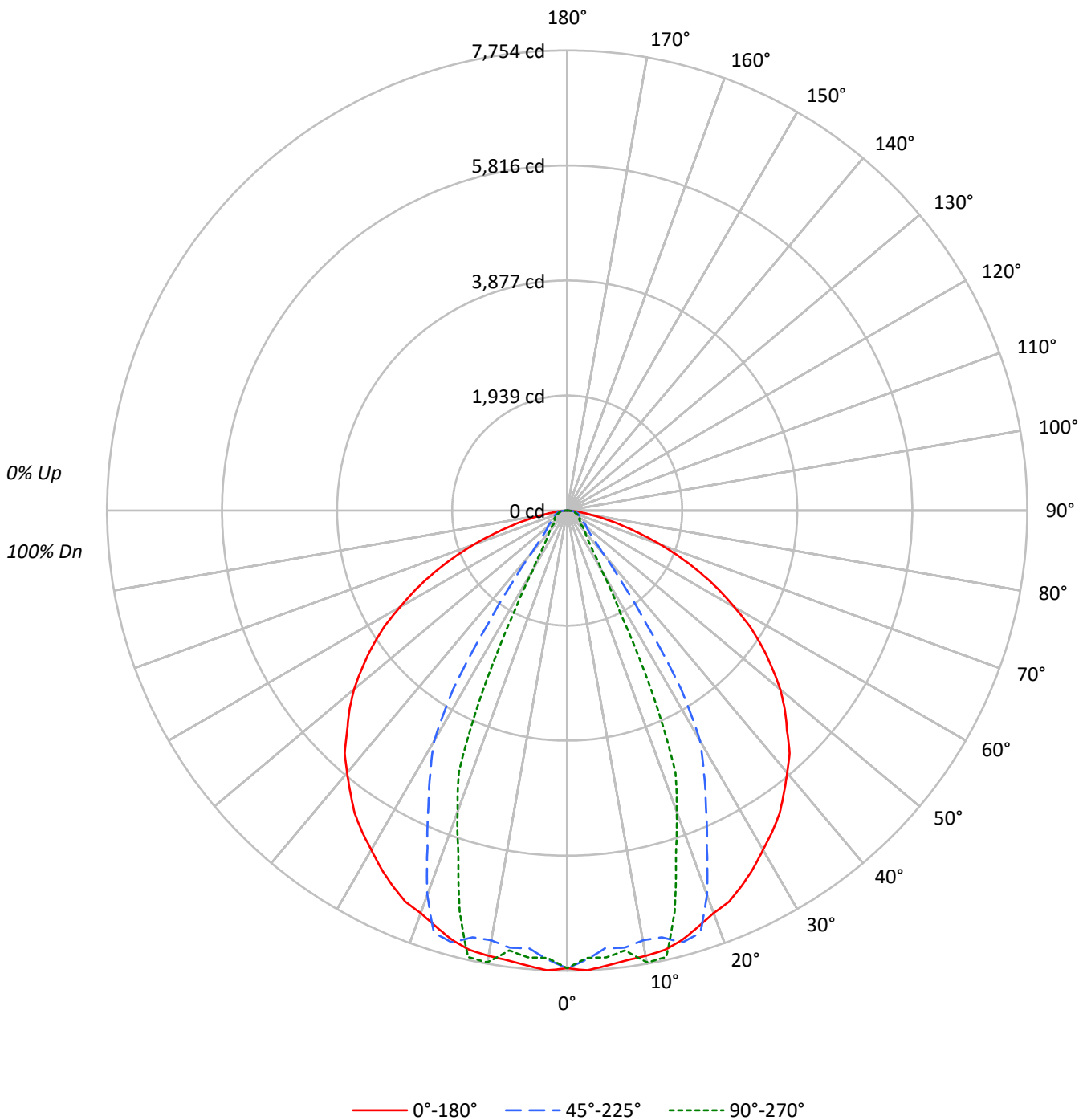
Lumens per Lamp: N/A
Luminaire Lumens: 10368.0 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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





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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°	10377	10377	10377
5°	10394	9998	10209
10°	10409	10046	10562
15°	10432	10486	9746
20°	10333	9863	7736
25°	10348	8223	5053
30°	10256	6966	1815
35°	10245	3774	1021
40°	10129	1645	800
45°	9972	1017	627
50°	9817	886	592
55°	9431	768	579
60°	8750	688	622
65°	7865	778	680
70°	6596	836	701
75°	4931	954	760
80°	3097	1107	865
85°	2062	1388	1267



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.8	6.9
10°-20°	2018.5	19.5
20°-30°	2471.7	23.8
30°-40°	1941.0	18.7
40°-50°	1439.4	13.9
50°-60°	876.3	8.5
60°-70°	524.9	5.1
70°-80°	288.0	2.8
80°-90°	93.4	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°	5205.0	50.2
0°-40°	7146.0	68.9
0°-60°	9461.7	91.3
0°-90°	10368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10368.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7712	7712	7712	7712	7712	
5°	7696	7486	7402	7484	7558	732
15°	7489	7284	7528	7224	6997	2109
25°	6970	6992	5539	4344	3404	3209
35°	6237	5674	2297	769	622	3892
45°	5241	3763	534	405	330	4053
55°	4020	1037	328	277	247	3578
65°	2470	306	244	230	214	2441
75°	949	193	184	160	146	1027
85°	134	105	90	83	82	163
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7712.2	7712.2	7712.2	7712.2	7712.2
2.5°	7754.3	7649.9	7569.8	7525.1	7543.3
5°	7695.6	7486.1	7402.5	7484.1	7558.4
7.5°	7644.7	7333.3	7427.9	7435.2	7474.2
10°	7618.7	7318.8	7353.1	7514.7	7730.4
12.5°	7584.4	7352.6	7364.5	7584.9	7706.5
15°	7489.3	7284.0	7528.2	7224.2	6997.0
17.5°	7350.5	7123.9	7459.6	6399.8	6091.1
20°	7216.9	6949.7	6888.4	5700.8	5402.9
22.5°	7130.6	6923.2	6153.5	5079.6	4771.9
25°	6970.5	6992.4	5538.6	4344.2	3403.9
27.5°	6794.3	6829.7	4994.9	2897.2	1950.1
30°	6601.0	6641.5	4483.5	1712.1	1168.4
32.5°	6425.8	6197.1	3580.6	1068.1	812.4
35°	6237.2	5673.7	2297.4	768.7	621.6
37.5°	5999.6	5123.8	1454.3	608.1	521.8
40°	5766.8	4630.0	936.6	519.2	455.3
42.5°	5549.0	4223.1	681.4	453.8	411.1
45°	5240.8	3763.1	534.3	404.9	329.5
47.5°	4974.1	3223.6	467.3	342.5	284.3
50°	4689.8	2464.7	423.1	304.6	282.8
52.5°	4352.5	1612.3	390.9	291.6	264.0
55°	4020.4	1036.9	327.5	277.0	246.9
57.5°	3661.7	657.5	289.0	268.7	257.8
60°	3251.6	443.4	255.7	254.7	231.3
62.5°	2872.2	364.4	246.9	244.3	218.8
65°	2470.4	305.6	244.3	229.7	213.6
67.5°	2069.2	262.0	220.9	210.0	196.0
70°	1676.8	239.6	212.6	207.9	178.3
72.5°	1273.4	197.5	188.7	176.2	148.1
75°	948.6	192.8	183.5	159.6	146.1
77.5°	641.9	177.8	166.8	142.9	132.0
80°	399.7	163.2	142.9	125.3	111.7
82.5°	237.5	136.2	117.5	103.4	94.6
85°	133.6	105.0	89.9	82.6	82.1
87.5°	28.6	37.9	30.1	28.6	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)