

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-LD5-12HE-W-CLI-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 (P23766)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-W-CLI-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

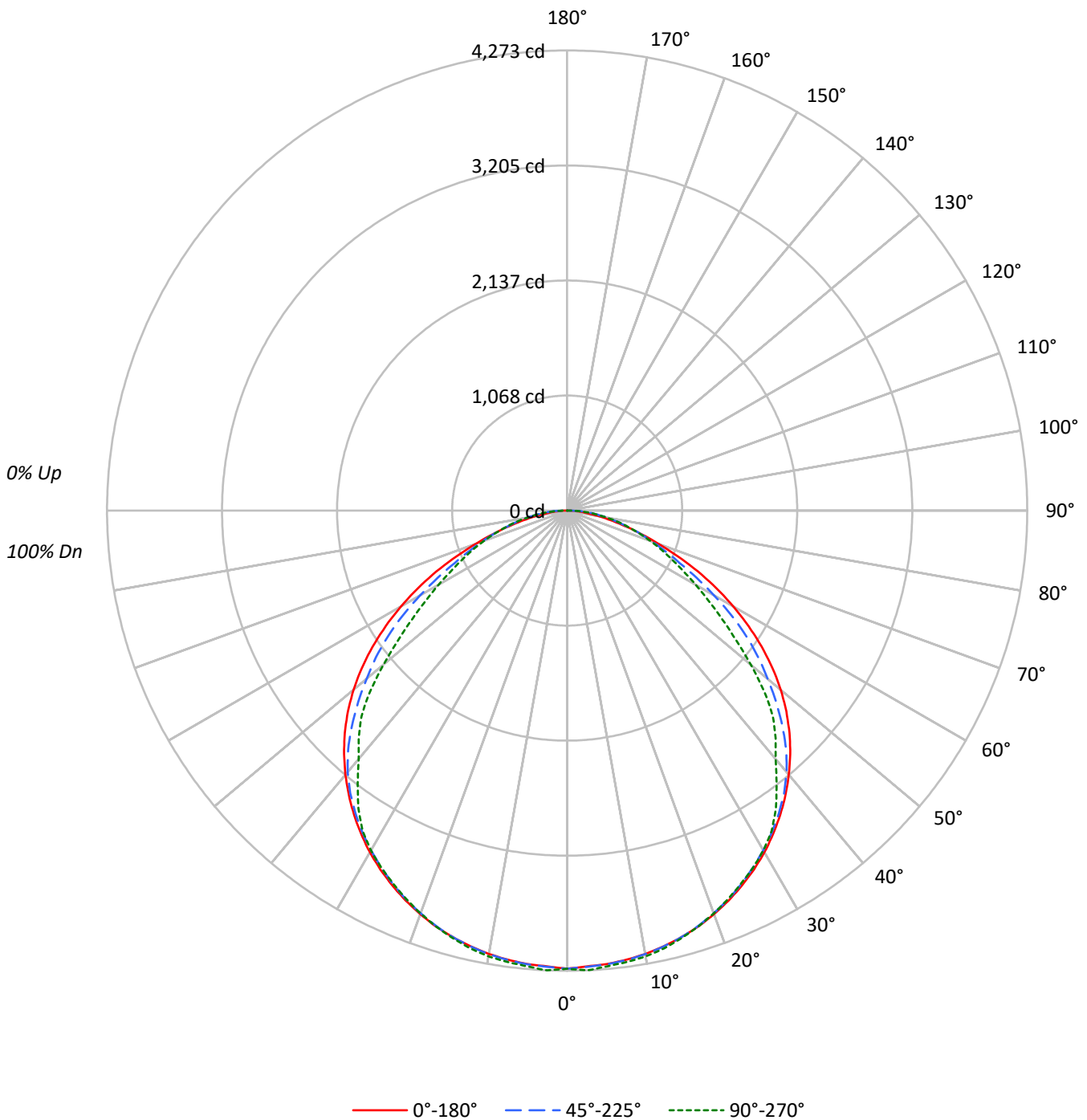
Lumens per Lamp: N/A
Luminaire Lumens: 11429.0 lumens
Efficiency: N/A
Efficacy: 157.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5724	5724	5724
5°	5708	5712	5738
10°	5711	5714	5744
15°	5712	5711	5725
20°	5711	5698	5699
25°	5702	5681	5674
30°	5693	5659	5662
35°	5666	5631	5551
40°	5626	5568	5288
45°	5554	5377	5141
50°	5421	5090	4656
55°	5174	4761	4117
60°	4802	4248	3713
65°	4268	3678	3414
70°	3542	3287	3218
75°	2864	3008	3045
80°	2275	2877	2865
85°	1782	3091	2949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.4	3.5
10°-20°	1160.4	10.2
20°-30°	1769.4	15.5
30°-40°	2140.7	18.7
40°-50°	2168.4	19.0
50°-60°	1792.2	15.7
60°-70°	1183.7	10.4
70°-80°	617.2	5.4
80°-90°	193.5	1.7
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°	3333.2	29.2
0°-40°	5474.0	47.9
0°-60°	9434.5	82.5
0°-90°	11429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4254	4254	4254	4254	4254	
5°	4226	4252	4229	4248	4248	402
15°	4101	4122	4100	4113	4110	1158
25°	3841	3856	3826	3836	3822	1771
35°	3450	3454	3428	3424	3380	2158
45°	2919	2911	2826	2738	2702	2248
55°	2206	2173	2029	1832	1755	1966
65°	1340	1302	1155	1080	1072	1324
75°	551	561	579	586	586	600
85°	115	149	200	199	191	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4253.9	4253.9	4253.9	4253.9	4253.9
2.5°	4236.1	4261.1	4240.2	4258.5	4273.3
5°	4226.4	4251.9	4229.4	4247.8	4248.3
7.5°	4207.5	4233.0	4210.0	4228.4	4227.9
10°	4180.4	4204.4	4182.4	4204.4	4204.4
12.5°	4143.6	4167.1	4145.7	4166.1	4163.0
15°	4100.7	4121.7	4100.2	4113.0	4109.9
17.5°	4050.2	4069.1	4045.1	4055.8	4049.7
20°	3988.4	4005.7	3979.2	3993.0	3980.2
22.5°	3918.9	3935.3	3908.2	3918.4	3904.1
25°	3840.8	3856.1	3826.5	3836.2	3821.9
27.5°	3756.5	3770.3	3737.1	3748.9	3737.6
30°	3664.1	3670.7	3642.1	3657.5	3644.2
32.5°	3560.9	3565.0	3540.0	3553.8	3531.3
35°	3449.6	3454.2	3428.2	3423.6	3379.7
37.5°	3330.6	3332.7	3308.2	3266.8	3194.3
40°	3203.0	3201.9	3170.3	3074.8	3010.4
42.5°	3066.6	3066.1	3010.4	2901.7	2864.9
45°	2919.0	2911.4	2825.6	2737.7	2702.0
47.5°	2760.7	2752.5	2632.5	2562.6	2481.4
50°	2589.6	2575.3	2431.8	2336.3	2224.5
52.5°	2405.3	2383.3	2237.3	2083.1	1977.3
55°	2205.6	2172.9	2029.4	1832.3	1755.2
57.5°	1997.8	1949.3	1809.8	1617.8	1555.0
60°	1784.3	1730.2	1578.5	1420.7	1379.8
62.5°	1564.7	1511.1	1356.4	1237.4	1214.9
65°	1340.5	1301.7	1155.2	1080.1	1072.4
67.5°	1110.7	1096.9	985.1	946.8	943.7
70°	900.3	897.8	835.5	816.1	818.1
72.5°	719.5	716.5	707.3	697.6	698.1
75°	551.0	560.7	578.6	586.3	585.7
77.5°	411.1	431.0	468.8	484.1	481.6
80°	293.6	323.3	371.3	385.6	369.7
82.5°	195.6	226.7	283.4	285.5	272.7
85°	115.4	148.6	200.2	198.7	191.0
87.5°	57.2	89.4	120.0	114.9	109.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)