

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-A-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 (P23761)
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-A-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

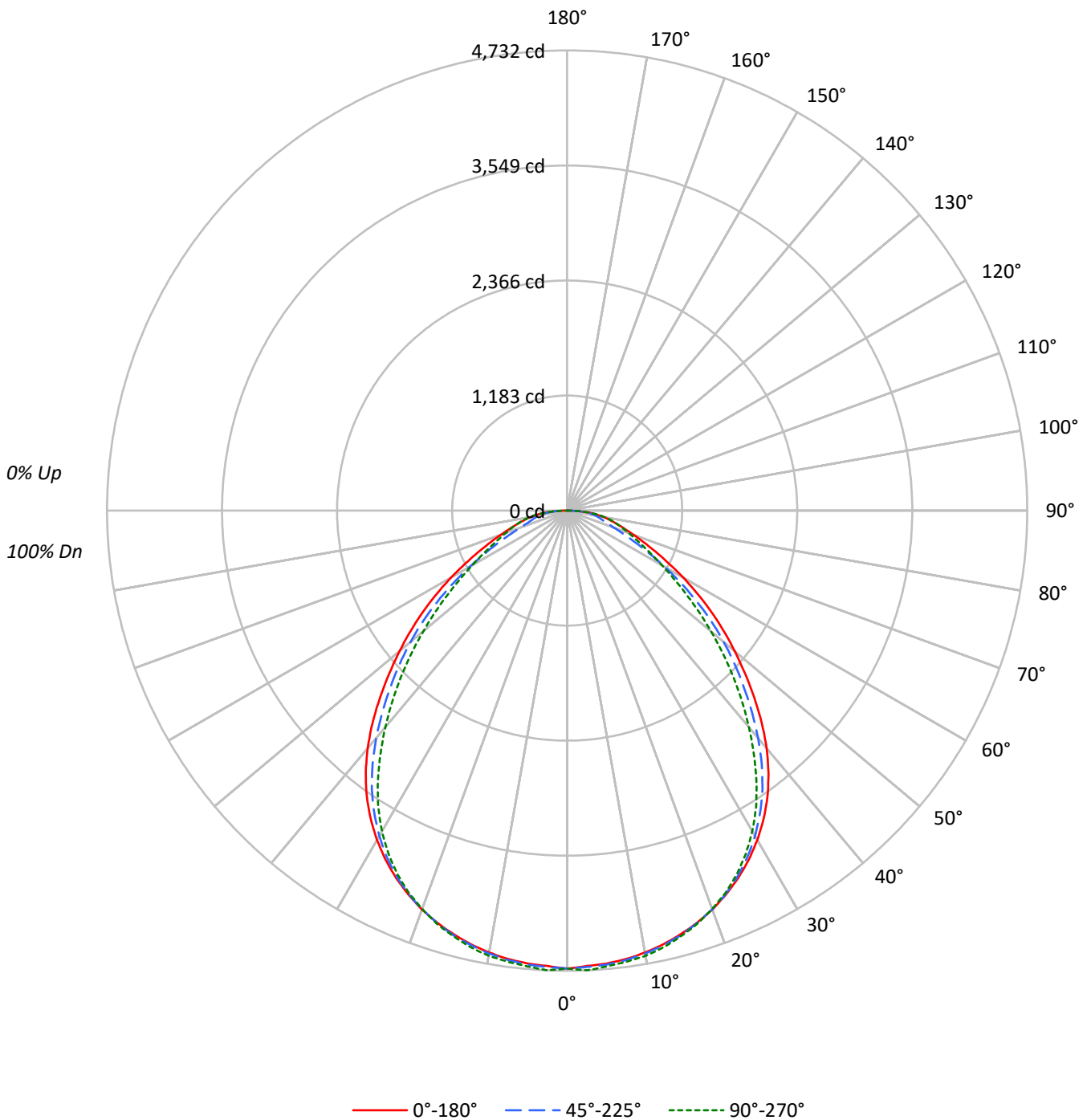
Lumens per Lamp: N/A
Luminaire Lumens: 10818.0 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-12HE-W-A-UNV-L740-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-A-UNV-L740-ED1-U

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	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				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63				63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55				55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43				43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38				38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35				35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31				31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29				29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6336	6336	6336
5°	6314	6328	6354
10°	6305	6319	6351
15°	6284	6296	6311
20°	6251	6246	6242
25°	6183	6162	6127
30°	6076	6003	5915
35°	5900	5751	5574
40°	5606	5366	5108
45°	5179	4890	4594
50°	4708	4403	4041
55°	4233	3812	3493
60°	3704	3116	3031
65°	3194	2450	2736
70°	2848	2000	2637
75°	2728	1952	2755
80°	2951	2308	3070
85°	3313	2779	3345



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-A-UNV-L740-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.3	4.1
10°-20°	1277.3	11.8
20°-30°	1910.8	17.7
30°-40°	2180.0	20.2
40°-50°	1984.4	18.3
50°-60°	1457.2	13.5
60°-70°	860.4	8.0
70°-80°	493.1	4.6
80°-90°	208.5	1.9
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°	3634.4	33.6
0°-40°	5814.5	53.7
0°-60°	9256.1	85.6
0°-90°	10818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4709	4709	4709	4709	4709	
5°	4675	4704	4685	4704	4704	444
15°	4511	4536	4520	4536	4531	1273
25°	4165	4180	4150	4149	4127	1917
35°	3592	3574	3502	3442	3394	2238
45°	2722	2706	2570	2455	2414	2098
55°	1805	1721	1625	1507	1489	1614
65°	1003	876	770	823	859	1010
75°	525	450	376	490	530	566
85°	215	198	180	212	217	224
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-A-UNV-L740-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4709.3	4709.3	4709.3	4709.3	4709.3
2.5°	4687.5	4714.6	4697.6	4716.2	4732.1
5°	4674.7	4703.9	4685.4	4703.9	4704.5
7.5°	4651.4	4678.5	4660.4	4680.6	4678.5
10°	4614.7	4641.8	4625.3	4647.1	4648.7
12.5°	4568.0	4594.0	4577.0	4602.0	4597.7
15°	4511.2	4536.1	4520.2	4536.1	4530.8
17.5°	4444.2	4467.1	4446.4	4463.9	4454.9
20°	4365.6	4384.8	4362.4	4378.9	4359.3
22.5°	4271.6	4288.6	4265.3	4274.3	4254.1
25°	4164.9	4179.8	4150.5	4148.9	4127.2
27.5°	4045.9	4053.9	4016.7	4004.0	3979.0
30°	3911.0	3913.1	3863.7	3839.8	3807.5
32.5°	3759.7	3754.3	3691.1	3655.6	3615.7
35°	3591.8	3574.3	3501.5	3441.5	3393.7
37.5°	3402.2	3374.6	3287.5	3198.8	3153.1
40°	3191.9	3159.5	3054.9	2944.9	2908.3
42.5°	2963.0	2935.4	2812.2	2697.5	2661.3
45°	2721.9	2706.0	2570.0	2454.7	2414.4
47.5°	2480.8	2469.1	2336.3	2218.9	2170.1
50°	2249.2	2223.7	2103.7	1975.2	1930.5
52.5°	2024.6	1972.5	1866.8	1735.1	1702.2
55°	1804.7	1721.3	1625.2	1507.3	1489.2
57.5°	1586.9	1479.1	1385.6	1297.5	1296.9
60°	1376.6	1253.4	1157.8	1111.6	1126.5
62.5°	1179.6	1053.2	949.6	952.8	979.9
65°	1003.2	875.8	769.6	823.2	859.3
67.5°	851.9	730.3	622.4	722.3	756.8
70°	723.9	614.0	508.3	633.1	670.2
72.5°	616.1	523.7	428.6	558.7	596.4
75°	524.7	449.8	375.5	489.7	530.0
77.5°	450.4	384.0	336.7	423.8	465.8
80°	380.8	322.4	297.9	360.1	396.2
82.5°	301.7	261.3	247.0	292.6	311.2
85°	214.6	198.1	180.0	212.4	216.7
87.5°	117.9	122.2	100.9	122.2	122.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)