

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-CLWG-UNV-L750-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-W-CLWG-UNV-L750-ED1-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: 12112.0 lumens
Efficiency: N/A
Efficacy: 166.8 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

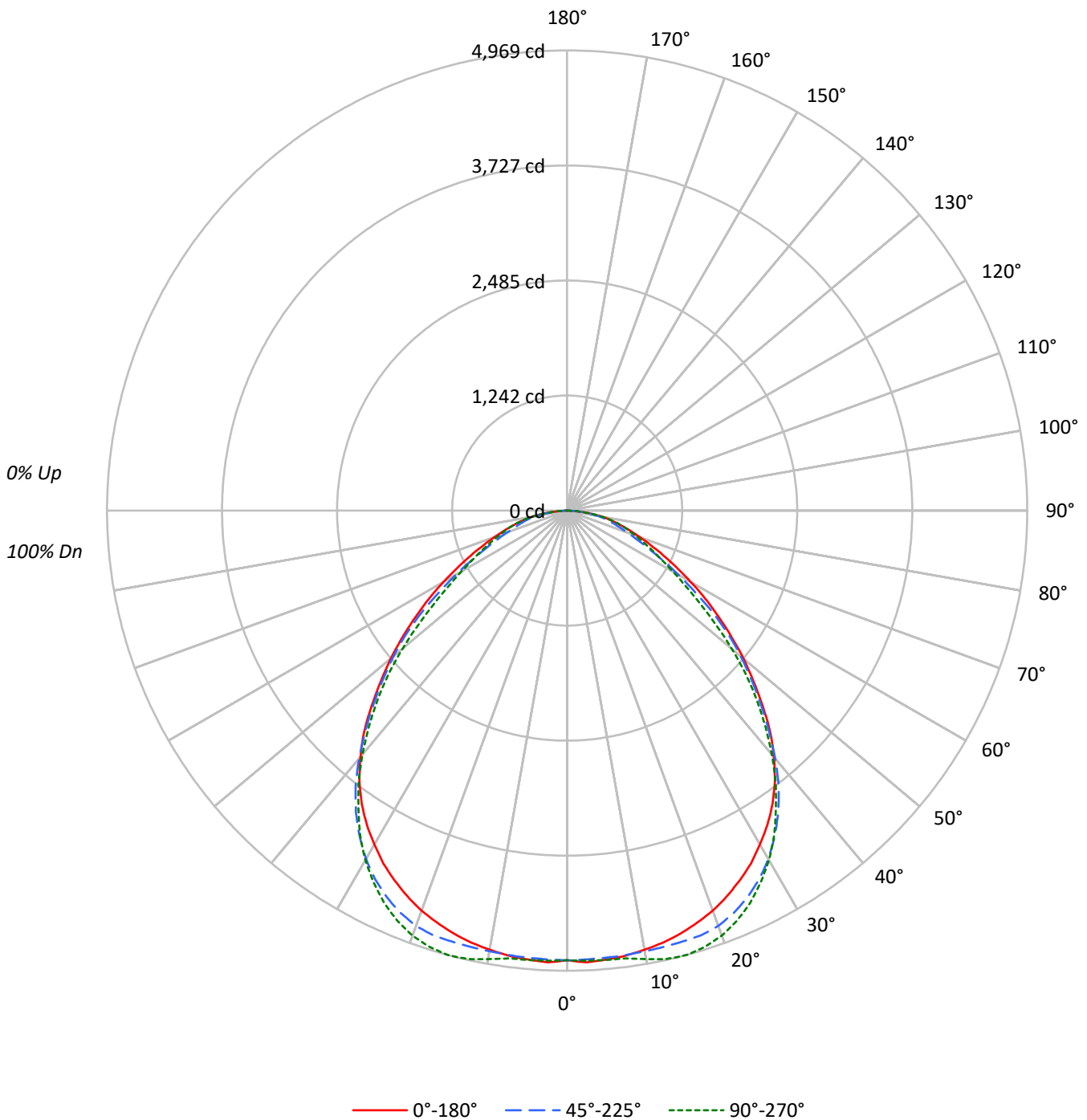
Input Watts (W): 72.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6535	6535	6535
5°	6573	6546	6578
10°	6579	6601	6719
15°	6587	6711	6922
20°	6583	6834	6993
25°	6542	6840	6940
30°	6467	6749	6771
35°	6352	6531	6452
40°	6101	6138	6042
45°	5685	5625	5511
50°	5205	5121	4859
55°	4675	4502	4108
60°	4146	3725	3546
65°	3653	3095	3218
70°	3267	2686	3065
75°	3061	2611	3100
80°	2980	2640	2951
85°	2379	2089	2166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.6	3.8
10°-20°	1362.7	11.3
20°-30°	2096.4	17.3
30°-40°	2446.6	20.2
40°-50°	2273.5	18.8
50°-60°	1685.2	13.9
60°-70°	1030.2	8.5
70°-80°	586.8	4.8
80°-90°	167.8	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°	3921.8	32.4
0°-40°	6368.4	52.6
0°-60°	10327.2	85.3
0°-90°	12112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12112.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4857	4857	4857	4857	4857	
5°	4867	4844	4846	4843	4870	463
15°	4729	4726	4818	4913	4969	1335
25°	4407	4441	4607	4646	4675	2030
35°	3867	3897	3976	3943	3928	2409
45°	2988	3005	2956	2910	2896	2302
55°	1993	1943	1919	1782	1751	1789
65°	1147	1042	972	998	1011	1148
75°	589	552	502	572	596	630
85°	154	150	135	140	140	178
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4856.6	4856.6	4856.6	4856.6	4856.6
2.5°	4882.9	4855.3	4850.3	4839.0	4864.1
5°	4866.6	4844.0	4846.5	4842.8	4870.3
7.5°	4847.8	4831.5	4841.5	4840.3	4876.6
10°	4815.2	4806.5	4831.5	4859.1	4917.9
12.5°	4778.9	4770.1	4825.2	4895.4	4959.3
15°	4728.8	4726.3	4817.7	4912.9	4969.3
17.5°	4666.2	4669.9	4809.0	4890.4	4940.5
20°	4597.3	4603.5	4772.6	4839.0	4884.1
22.5°	4508.3	4529.6	4702.5	4757.6	4792.7
25°	4406.9	4440.7	4607.3	4646.1	4674.9
27.5°	4297.9	4331.7	4489.5	4509.6	4525.9
30°	4162.6	4210.2	4344.2	4346.7	4358.0
32.5°	4024.8	4067.4	4170.1	4158.8	4161.3
35°	3867.0	3897.0	3975.9	3943.4	3928.3
37.5°	3685.3	3701.6	3751.7	3702.9	3700.4
40°	3473.6	3494.9	3494.9	3427.3	3439.8
42.5°	3248.1	3255.7	3224.3	3160.5	3170.5
45°	2987.6	3005.1	2956.3	2909.9	2896.1
47.5°	2729.5	2747.1	2695.7	2641.9	2618.1
50°	2486.5	2477.8	2446.4	2355.0	2321.2
52.5°	2234.7	2207.2	2194.7	2060.6	2021.8
55°	1993.0	1942.9	1919.1	1782.5	1751.2
57.5°	1768.8	1678.6	1633.5	1527.0	1514.5
60°	1540.8	1439.3	1384.2	1315.3	1317.8
62.5°	1334.1	1227.6	1161.2	1141.2	1149.9
65°	1147.4	1042.2	972.1	998.4	1010.9
67.5°	978.3	891.9	813.0	874.4	886.9
70°	830.5	761.6	682.7	772.9	779.2
72.5°	707.8	651.4	585.0	670.2	684.0
75°	588.8	552.4	502.3	572.5	596.3
77.5°	484.8	456.0	427.2	469.7	496.1
80°	384.6	355.8	340.7	363.3	380.8
82.5°	271.8	253.0	238.0	254.3	263.1
85°	154.1	150.3	135.3	140.3	140.3
87.5°	35.1	40.1	45.1	41.3	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)