

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-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 (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-L740-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: 11215.0 lumens
Efficiency: N/A
Efficacy: 154.5 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

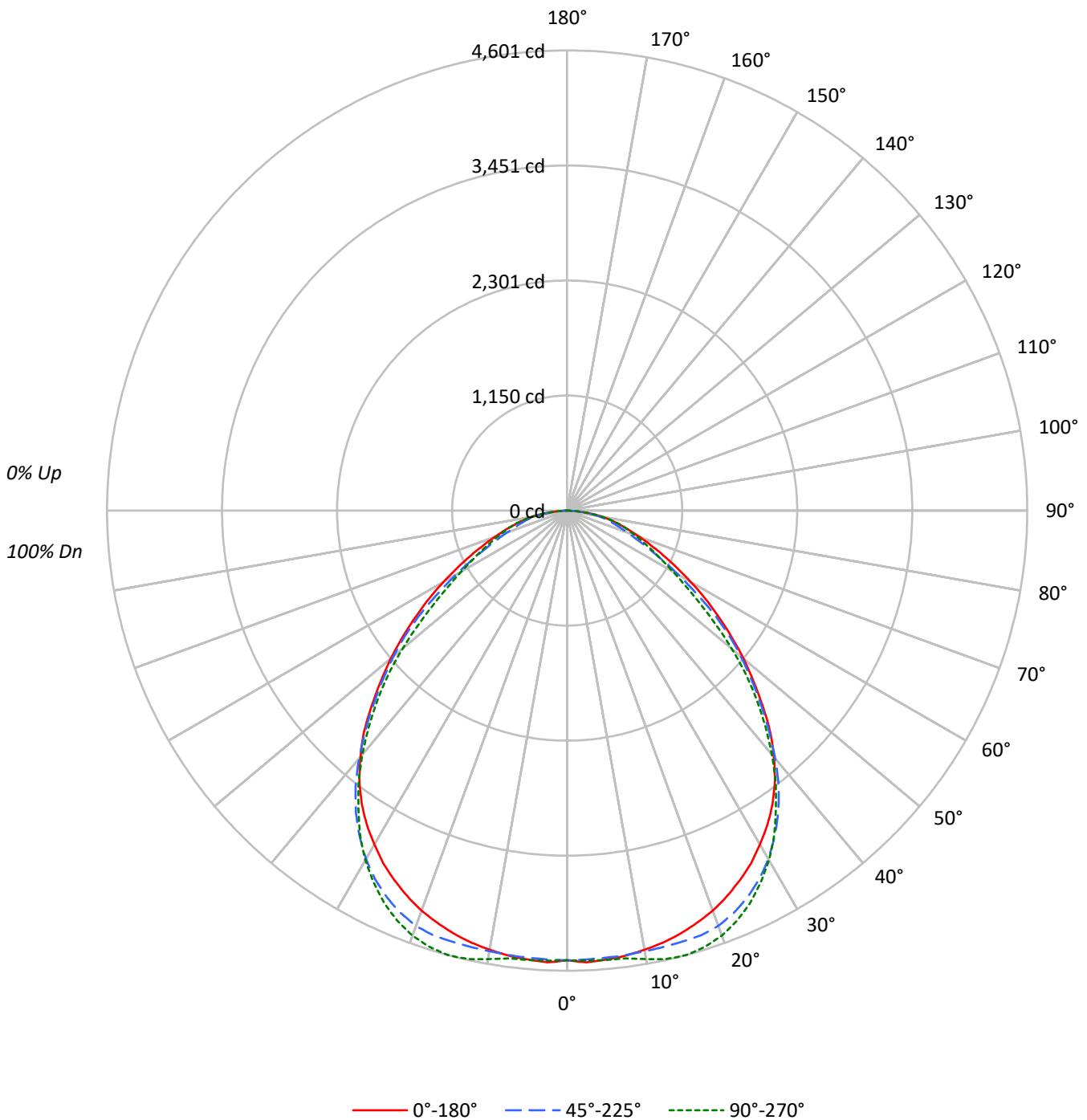
Input Watts (W): 72.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6051	6051	6051
5°	6086	6061	6091
10°	6092	6112	6221
15°	6099	6214	6409
20°	6095	6328	6475
25°	6058	6333	6426
30°	5988	6250	6269
35°	5881	6047	5975
40°	5649	5684	5594
45°	5264	5209	5103
50°	4819	4742	4499
55°	4329	4168	3804
60°	3839	3449	3284
65°	3383	2866	2980
70°	3025	2487	2838
75°	2834	2418	2870
80°	2759	2445	2732
85°	2203	1934	2005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.4	3.8
10°-20°	1261.8	11.3
20°-30°	1941.1	17.3
30°-40°	2265.4	20.2
40°-50°	2105.2	18.8
50°-60°	1560.4	13.9
60°-70°	953.9	8.5
70°-80°	543.3	4.8
80°-90°	155.4	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°	3631.3	32.4
0°-40°	5896.7	52.6
0°-60°	9562.4	85.3
0°-90°	11215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11215.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4497	4497	4497	4497	4497	
5°	4506	4485	4488	4484	4510	429
15°	4379	4376	4461	4549	4601	1236
25°	4080	4112	4266	4302	4329	1880
35°	3581	3608	3682	3651	3637	2231
45°	2766	2783	2737	2694	2682	2132
55°	1845	1799	1777	1650	1622	1656
65°	1062	965	900	924	936	1063
75°	545	512	465	530	552	583
85°	143	139	125	130	130	164
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4496.9	4496.9	4496.9	4496.9	4496.9
2.5°	4521.2	4495.7	4491.1	4480.7	4503.9
5°	4506.2	4485.3	4487.6	4484.1	4509.7
7.5°	4488.8	4473.7	4483.0	4481.8	4515.4
10°	4458.6	4450.5	4473.7	4499.2	4553.7
12.5°	4425.0	4416.9	4467.9	4532.8	4592.0
15°	4378.6	4376.3	4460.9	4549.1	4601.3
17.5°	4320.6	4324.1	4452.8	4528.2	4574.6
20°	4256.8	4262.6	4419.2	4480.7	4522.4
22.5°	4174.4	4194.2	4354.2	4405.3	4437.7
25°	4080.5	4111.8	4266.1	4302.0	4328.7
27.5°	3979.6	4010.9	4157.0	4175.6	4190.7
30°	3854.3	3898.4	4022.5	4024.8	4035.3
32.5°	3726.7	3766.2	3861.3	3850.8	3853.2
35°	3580.6	3608.4	3681.5	3651.3	3637.4
37.5°	3412.4	3427.5	3473.9	3428.6	3426.3
40°	3216.4	3236.1	3236.1	3173.5	3185.1
42.5°	3007.6	3014.6	2985.6	2926.4	2935.7
45°	2766.3	2782.6	2737.3	2694.4	2681.7
47.5°	2527.4	2543.6	2496.1	2446.2	2424.2
50°	2302.4	2294.3	2265.3	2180.6	2149.3
52.5°	2069.2	2043.7	2032.1	1908.0	1872.1
55°	1845.4	1799.0	1777.0	1650.5	1621.5
57.5°	1637.8	1554.3	1512.5	1413.9	1402.3
60°	1426.7	1332.7	1281.7	1217.9	1220.2
62.5°	1235.3	1136.7	1075.2	1056.7	1064.8
65°	1062.5	965.0	900.1	924.4	936.0
67.5°	905.9	825.8	752.8	809.6	821.2
70°	769.0	705.2	632.1	715.7	721.5
72.5°	655.3	603.1	541.7	620.5	633.3
75°	545.1	511.5	465.1	530.1	552.1
77.5°	448.9	422.2	395.5	435.0	459.3
80°	356.1	329.4	315.5	336.4	352.6
82.5°	251.7	234.3	220.4	235.5	243.6
85°	142.7	139.2	125.3	129.9	129.9
87.5°	32.5	37.1	41.8	38.3	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)