

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-CL-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 (P23762)
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-CL-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

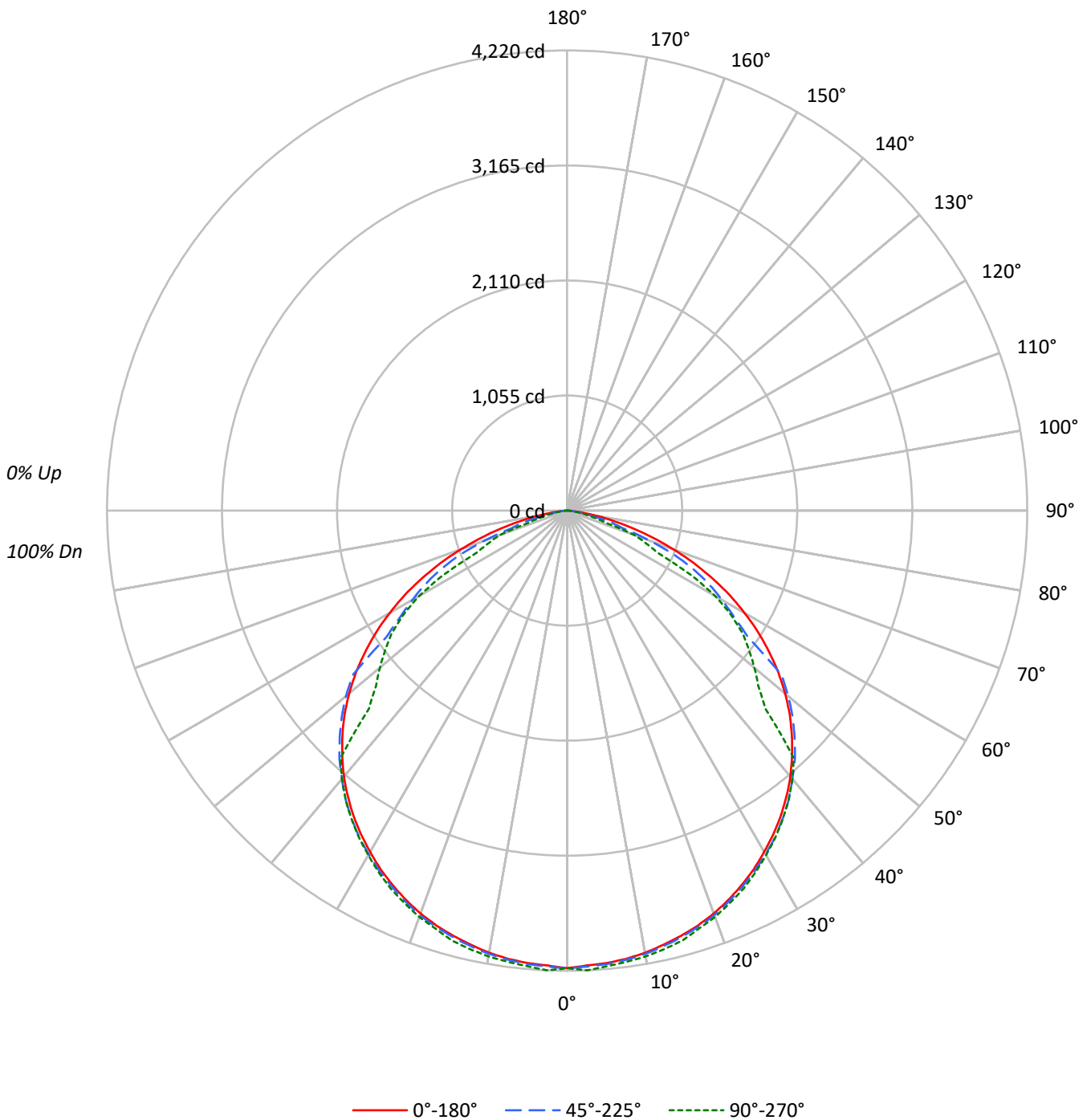
Lumens per Lamp: N/A
Luminaire Lumens: 11343.0 lumens
Efficiency: N/A
Efficacy: 156.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55					53				
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48					46				
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42					40				
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38					36				
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34					32				
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30					29				
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5645	5645	5645
5°	5625	5637	5665
10°	5624	5640	5673
15°	5624	5641	5686
20°	5631	5652	5678
25°	5624	5646	5680
30°	5614	5655	5668
35°	5611	5662	5667
40°	5594	5643	5643
45°	5546	5613	4891
50°	5460	5542	4692
55°	5305	4744	4609
60°	5056	4410	4211
65°	4676	4094	2916
70°	4072	3185	2598
75°	3216	2138	1397
80°	2070	1021	871
85°	852	624	685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.0	3.5
10°-20°	1147.2	10.1
20°-30°	1758.8	15.5
30°-40°	2155.7	19.0
40°-50°	2216.2	19.5
50°-60°	1891.4	16.7
60°-70°	1250.4	11.0
70°-80°	463.3	4.1
80°-90°	61.9	0.5
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°	3304.0	29.1
0°-40°	5459.7	48.1
0°-60°	9567.3	84.3
0°-90°	11343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11343.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4196	4196	4196	4196	4196	
5°	4165	4194	4174	4190	4194	396
15°	4037	4062	4050	4080	4082	1140
25°	3789	3808	3803	3837	3826	1747
35°	3416	3440	3447	3469	3450	2137
45°	2914	2944	2950	2945	2570	2246
55°	2262	2303	2022	1964	1965	2018
65°	1469	1481	1286	1058	916	1448
75°	619	542	411	276	269	664
85°	55	39	40	44	44	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4195.7	4195.7	4195.7	4195.7	4195.7
2.5°	4175.3	4201.4	4186.0	4205.4	4220.3
5°	4164.6	4193.7	4173.8	4190.1	4194.2
7.5°	4146.2	4173.3	4154.9	4176.3	4173.3
10°	4116.5	4141.1	4128.3	4150.8	4152.3
12.5°	4078.7	4103.3	4091.5	4119.1	4118.6
15°	4037.4	4061.9	4049.6	4080.3	4082.3
17.5°	3988.8	4011.3	4002.1	4030.2	4019.0
20°	3932.6	3952.1	3947.5	3974.0	3965.8
22.5°	3863.7	3883.6	3879.0	3909.6	3897.4
25°	3788.6	3808.5	3802.9	3837.1	3825.9
27.5°	3707.3	3726.2	3725.7	3757.9	3740.6
30°	3613.3	3638.4	3639.9	3668.5	3648.1
32.5°	3520.4	3543.9	3550.5	3571.5	3554.1
35°	3416.2	3439.7	3447.3	3468.8	3449.9
37.5°	3303.8	3323.7	3337.5	3353.3	3338.5
40°	3184.7	3202.6	3212.8	3232.2	3212.8
42.5°	3051.9	3077.4	3091.8	3105.5	3073.9
45°	2914.5	2943.6	2949.7	2945.1	2570.2
47.5°	2768.9	2800.6	2804.1	2445.5	2376.5
50°	2608.5	2648.3	2647.8	2260.1	2241.7
52.5°	2441.4	2479.7	2478.2	2115.0	2102.7
55°	2261.6	2303.0	2022.5	1963.8	1964.8
57.5°	2078.2	2107.8	1814.6	1817.1	1783.4
60°	1879.0	1907.1	1638.9	1623.0	1564.8
62.5°	1679.2	1691.0	1468.7	1391.6	1280.7
65°	1468.7	1481.0	1285.8	1057.5	916.0
67.5°	1252.6	1264.9	1067.2	786.7	776.0
70°	1035.0	934.9	809.7	655.4	660.5
72.5°	820.4	718.3	529.3	507.8	366.8
75°	618.7	542.0	411.2	276.4	268.7
77.5°	430.7	373.4	220.2	188.5	176.2
80°	267.2	187.5	131.8	117.0	112.4
82.5°	135.4	107.8	71.5	71.5	71.5
85°	55.2	39.3	40.4	43.9	44.4
87.5°	11.7	15.8	19.4	19.9	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)