

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-LD5-12SE-W-WG-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 (P33336)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-12SE-W-WG-UNV-L740-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

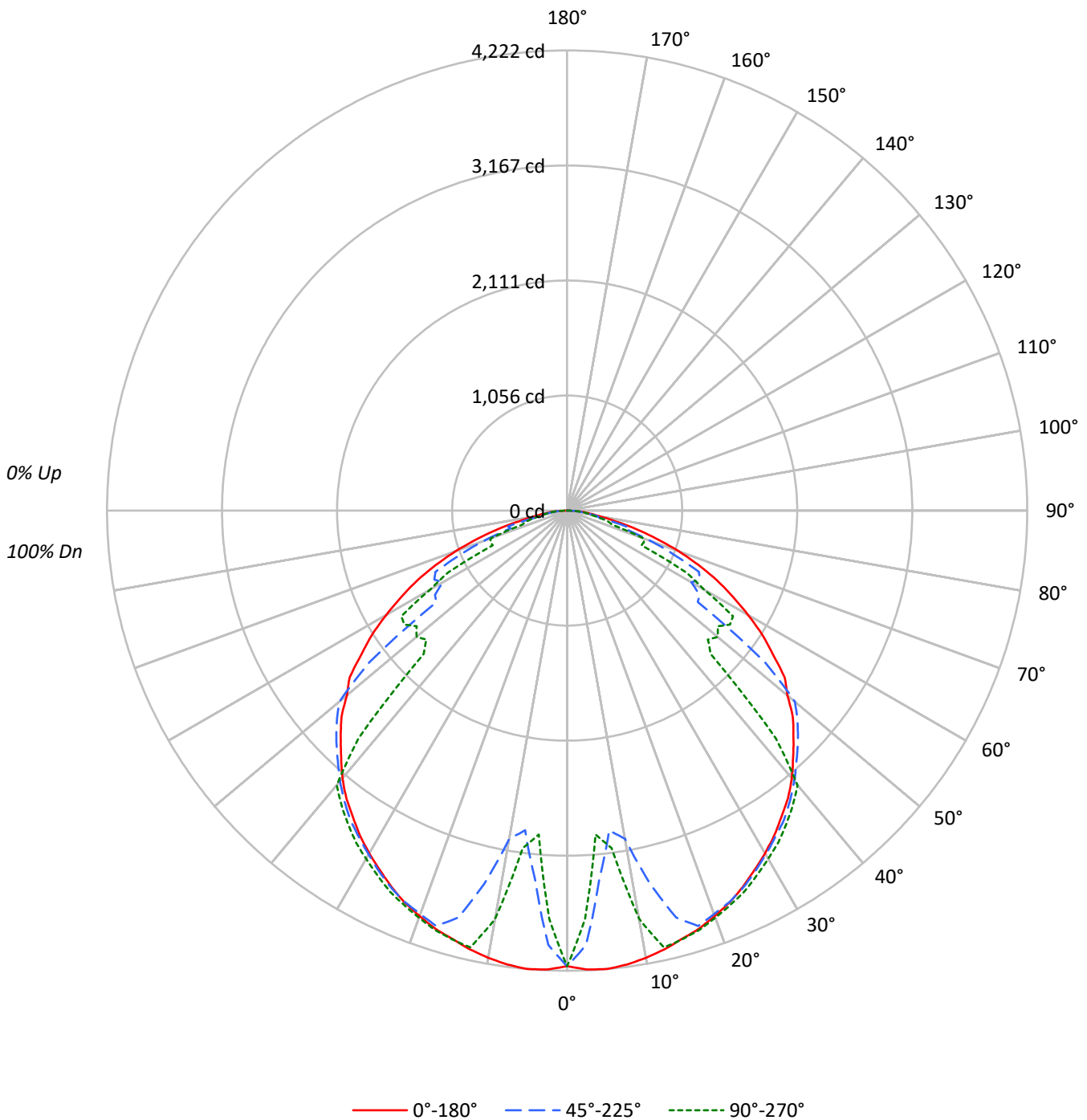
Lumens per Lamp: N/A  
Luminaire Lumens: 11074.0 lumens  
Efficiency: N/A  
Efficacy: 144.6 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 76.6  
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5624	5624	5624
5°	5702	4581	4029
10°	5693	4178	5196
15°	5667	5385	5672
20°	5668	5642	5692
25°	5657	5670	5722
30°	5641	5660	5732
35°	5632	5694	5761
40°	5633	5694	5776
45°	5589	5698	3541
50°	5525	5709	3774
55°	5409	3433	4277
60°	5159	3539	3917
65°	4834	4249	2396
70°	4269	3219	2937
75°	3401	2926	2037
80°	2343	2115	1750
85°	2246	1953	1853



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.3	3.0
10°-20°	1047.2	9.5
20°-30°	1722.8	15.6
30°-40°	2166.3	19.6
40°-50°	2124.5	19.2
50°-60°	1760.3	15.9
60°-70°	1241.6	11.2
70°-80°	541.7	4.9
80°-90°	135.3	1.2
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°	3104.3	28.0
0°-40°	5270.5	47.6
0°-60°	9155.4	82.7
0°-90°	11074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11074.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4180	4180	4180	4180	4180	
5°	4222	3930	3392	3076	2983	401
15°	4069	2826	3866	4085	4072	1151
25°	3811	3487	3819	3845	3854	1757
35°	3429	3427	3467	3490	3507	2148
45°	2937	2946	2994	2652	1861	2267
55°	2306	2381	1464	1664	1823	2063
65°	1518	1608	1334	1027	753	1493
75°	654	641	563	368	392	702
85°	146	130	126	121	120	151
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4180.1	4180.1	4180.1	4180.1	4180.1
2.5°	4214.6	4127.1	3988.1	3813.2	3751.2
5°	4222.1	3929.7	3391.8	3075.5	2983.0
7.5°	4200.6	3571.3	2957.0	3023.5	3121.4
10°	4166.6	3256.4	3058.0	3597.8	3803.2
12.5°	4123.1	2976.5	3503.3	4064.1	4105.1
15°	4068.6	2825.5	3865.7	4084.6	4072.1
17.5°	4022.6	2914.0	3995.6	4043.6	4034.6
20°	3958.2	3090.4	3940.2	3978.6	3975.1
22.5°	3893.2	3299.4	3887.7	3915.2	3915.2
25°	3810.7	3486.8	3819.2	3844.7	3854.2
27.5°	3720.2	3594.8	3733.7	3754.7	3771.7
30°	3630.8	3610.3	3642.8	3669.7	3689.7
32.5°	3536.3	3528.3	3553.8	3582.3	3607.8
35°	3428.8	3426.8	3466.8	3489.8	3507.3
37.5°	3327.9	3320.9	3357.9	3389.8	3403.3
40°	3206.9	3206.9	3241.9	3274.4	3288.4
42.5°	3069.0	3088.4	3115.4	3148.9	2836.0
45°	2937.0	2946.0	2994.5	2652.1	1860.9
47.5°	2810.0	2821.5	2867.5	1704.9	1751.4
50°	2639.6	2691.6	2727.6	1699.9	1802.9
52.5°	2515.1	2537.6	2289.7	1682.9	1740.9
55°	2305.7	2381.2	1463.5	1663.9	1823.4
57.5°	2126.8	2181.8	1439.0	1704.9	1803.9
60°	1917.3	2001.3	1315.1	1644.9	1455.5
62.5°	1716.4	1796.4	1373.0	1294.6	1232.6
65°	1518.5	1608.0	1334.5	1026.7	752.7
67.5°	1301.6	1218.1	1064.6	723.3	761.2
70°	1085.1	850.7	818.2	808.7	746.7
72.5°	862.7	620.8	543.3	606.8	434.4
75°	654.3	641.3	562.8	367.9	391.9
77.5°	453.8	462.8	301.4	358.9	297.9
80°	302.4	261.9	272.9	228.9	225.9
82.5°	209.4	213.9	179.4	173.9	176.4
85°	145.5	129.5	126.5	121.0	120.0
87.5°	48.5	56.5	52.5	47.5	50.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)