

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-AWG-UNV-L735-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 (P23764)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-12SE-W-AWG-UNV-L735-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

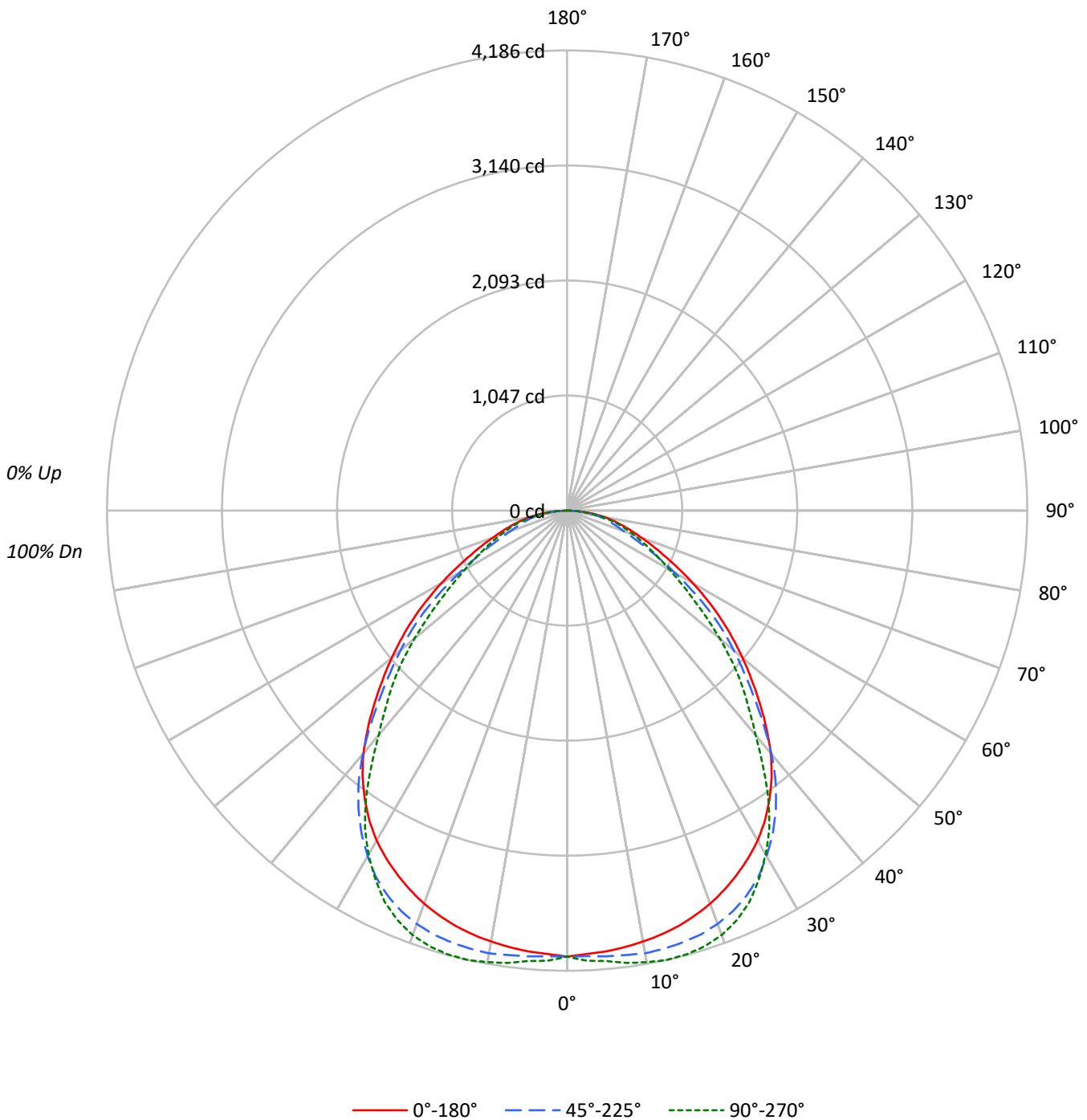
Lumens per Lamp: N/A  
Luminaire Lumens: 10057.0 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	5459	5459	5459
5°	5437	5498	5554
10°	5439	5587	5699
15°	5449	5664	5823
20°	5448	5729	5883
25°	5425	5736	5829
30°	5384	5641	5611
35°	5270	5437	5239
40°	5064	5079	4683
45°	4714	4579	4282
50°	4357	4140	3794
55°	3989	3669	3274
60°	3556	3046	2891
65°	3119	2507	2656
70°	2816	2159	2530
75°	2692	2116	2522
80°	2713	2241	2461
85°	2404	2052	2147



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.7	3.9
10°-20°	1148.5	11.4
20°-30°	1761.6	17.5
30°-40°	2026.1	20.1
40°-50°	1847.9	18.4
50°-60°	1385.0	13.8
60°-70°	852.0	8.5
70°-80°	488.2	4.9
80°-90°	158.1	1.6
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°	3299.7	32.8
0°-40°	5325.8	53.0
0°-60°	8558.8	85.1
0°-90°	10057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10057.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4057	4057	4057	4057	4057	
5°	4026	4067	4071	4104	4112	383
15°	3912	3999	4066	4153	4180	1104
25°	3654	3759	3864	3924	3927	1684
35°	3209	3271	3310	3256	3190	2001
45°	2477	2531	2406	2282	2250	1912
55°	1700	1637	1564	1426	1396	1519
65°	980	876	787	812	834	985
75°	518	464	407	466	485	554
85°	156	147	133	140	139	174
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4056.9	4056.9	4056.9	4056.9	4056.9
2.5°	4037.8	4066.7	4057.4	4081.2	4098.8
5°	4025.9	4066.7	4070.9	4104.5	4112.3
7.5°	4005.7	4059.0	4077.6	4137.1	4150.5
10°	3980.9	4045.0	4089.0	4153.1	4171.2
12.5°	3950.9	4025.4	4081.2	4160.4	4186.2
15°	3912.1	3999.0	4066.2	4153.1	4180.5
17.5°	3862.9	3963.8	4042.4	4127.8	4156.2
20°	3805.0	3911.6	4001.0	4088.5	4108.6
22.5°	3735.2	3842.2	3944.1	4022.8	4033.6
25°	3654.0	3759.0	3864.0	3923.5	3926.6
27.5°	3565.5	3663.3	3761.6	3793.6	3779.7
30°	3465.7	3553.1	3630.7	3637.4	3611.5
32.5°	3347.2	3425.8	3481.2	3466.7	3423.3
35°	3208.6	3271.2	3310.0	3255.7	3189.5
37.5°	3056.5	3103.6	3116.5	2998.6	2923.1
40°	2883.2	2923.6	2891.5	2727.5	2666.5
42.5°	2683.6	2730.1	2647.9	2486.0	2448.7
45°	2477.2	2531.0	2406.3	2282.2	2250.1
47.5°	2274.9	2324.1	2182.9	2083.0	2035.4
50°	2081.5	2102.7	1978.0	1865.3	1812.5
52.5°	1891.1	1869.9	1781.5	1641.3	1594.7
55°	1700.3	1637.1	1564.2	1426.1	1395.6
57.5°	1508.9	1420.9	1341.3	1235.2	1223.3
60°	1321.6	1213.5	1131.8	1068.7	1074.4
62.5°	1143.2	1033.0	945.6	925.4	947.1
65°	979.7	876.2	787.3	811.6	834.3
67.5°	843.7	744.3	653.8	715.9	734.0
70°	715.9	635.7	548.8	629.0	643.0
72.5°	614.0	545.7	470.2	548.3	560.2
75°	517.8	464.0	407.1	466.1	485.2
77.5°	434.0	389.5	350.7	385.4	406.1
80°	350.2	312.4	289.2	304.7	317.6
82.5°	256.6	232.3	215.2	221.9	224.0
85°	155.7	146.9	132.9	140.2	139.1
87.5°	51.2	58.5	61.6	55.3	52.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)