

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-N-CLI-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 (P23769)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-12SE-N-CLI-UNV-L735-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

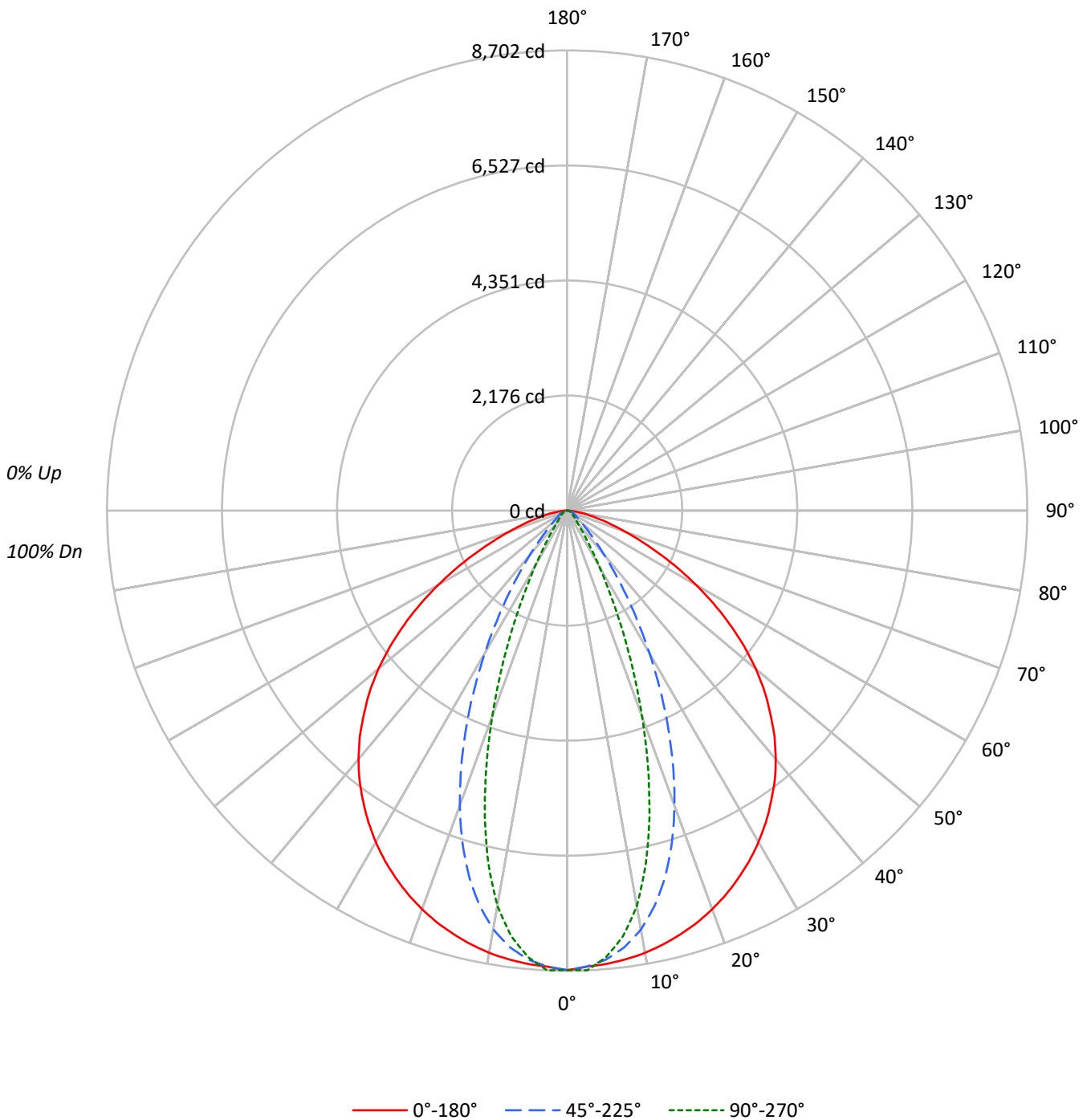
Lumens per Lamp: N/A  
Luminaire Lumens: 9514.0 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	11693	11693	11693
5°	11622	11507	11446
10°	11603	10986	10367
15°	11556	9986	8372
20°	11487	8497	5934
25°	11384	6700	3585
30°	11246	4836	1843
35°	11043	3161	920
40°	10781	1899	537
45°	10333	1134	401
50°	9746	742	337
55°	8821	563	294
60°	7580	479	269
65°	6097	437	253
70°	4594	468	252
75°	3379	445	259
80°	2472	443	284
85°	1851	537	367



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	800.3	8.4
10°-20°	1991.1	20.9
20°-30°	2205.4	23.2
30°-40°	1766.9	18.6
40°-50°	1261.3	13.3
50°-60°	810.2	8.5
60°-70°	439.1	4.6
70°-80°	187.7	2.0
80°-90°	52.0	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°	4996.8	52.5
0°-40°	6763.7	71.1
0°-60°	8835.2	92.9
0°-90°	9514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9514.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8690	8690	8690	8690	8690	
5°	8605	8637	8520	8493	8475	818
15°	8296	8037	7169	6335	6010	2341
25°	7668	6762	4513	2940	2415	3533
35°	6723	4863	1925	776	560	4204
45°	5430	2807	596	254	211	4186
55°	3760	1255	240	147	125	3351
65°	1915	515	137	95	80	1918
75°	650	189	86	60	50	722
85°	120	50	35	29	24	146
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8690.4	8690.4	8690.4	8690.4	8690.4
2.5°	8633.1	8687.1	8629.0	8665.2	8702.3
5°	8605.2	8637.3	8519.6	8492.6	8474.8
7.5°	8556.7	8547.5	8326.5	8183.2	8114.1
10°	8492.6	8418.5	8040.8	7725.9	7587.7
12.5°	8401.1	8248.2	7654.1	7101.1	6866.8
15°	8296.3	8036.7	7168.9	6335.4	6010.4
17.5°	8170.8	7789.6	6588.9	5514.2	5085.3
20°	8022.5	7491.1	5934.4	4641.8	4144.2
22.5°	7856.8	7146.9	5233.6	3772.1	3238.4
25°	7668.3	6761.5	4513.2	2940.4	2415.0
27.5°	7464.6	6333.5	3796.8	2197.1	1717.8
30°	7238.5	5870.3	3112.5	1584.2	1186.0
32.5°	6991.7	5377.8	2476.7	1114.1	811.1
35°	6723.1	4862.9	1924.7	776.3	560.3
37.5°	6448.0	4337.4	1453.7	548.8	401.9
40°	6138.1	3813.8	1081.1	401.9	305.8
42.5°	5805.3	3300.2	800.1	309.4	247.6
45°	5430.4	2807.2	596.0	253.6	211.0
47.5°	5067.0	2347.7	452.7	216.0	183.5
50°	4656.0	1933.0	354.3	188.6	161.1
52.5°	4219.8	1568.2	287.5	166.2	141.9
55°	3760.2	1255.1	239.8	147.4	125.4
57.5°	3294.7	994.2	205.1	131.4	111.7
60°	2816.8	795.1	178.1	117.6	99.8
62.5°	2350.4	635.8	155.6	105.7	89.3
65°	1915.1	515.4	137.3	94.7	79.6
67.5°	1512.8	407.4	128.2	85.1	71.9
70°	1167.7	317.2	119.0	76.0	64.1
72.5°	884.8	243.5	105.3	67.7	56.8
75°	650.0	188.6	85.6	59.5	49.9
77.5°	465.0	145.1	69.6	51.7	43.0
80°	319.0	108.0	57.2	44.4	36.6
82.5°	207.3	76.4	46.2	36.6	30.2
85°	119.9	49.9	34.8	28.8	23.8
87.5°	51.7	27.5	23.8	21.5	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)