

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-L850-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-L850-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

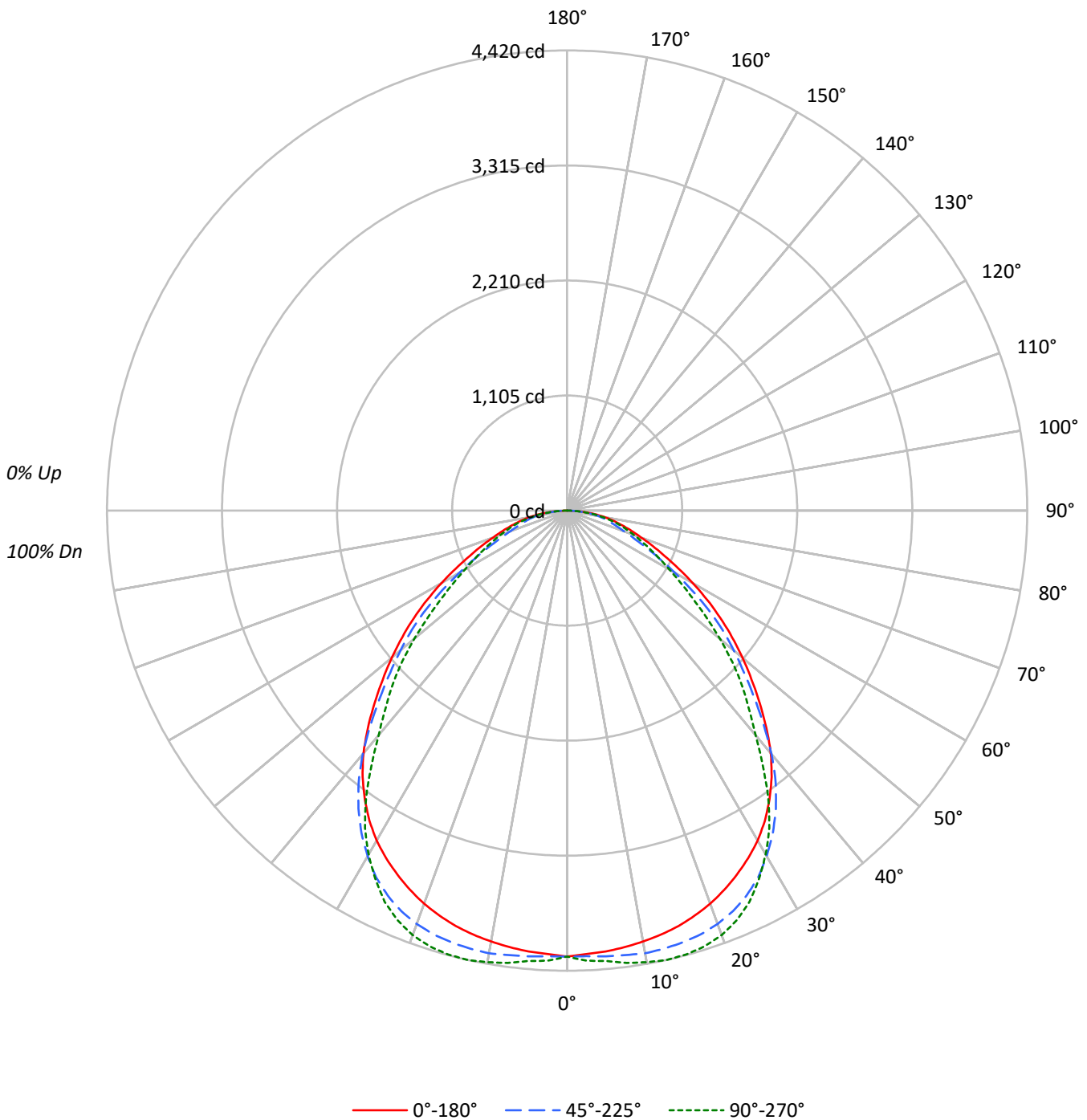
Lumens per Lamp: N/A  
Luminaire Lumens: 10619.0 lumens  
Efficiency: N/A  
Efficacy: 138.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	5764	5764	5764
5°	5741	5806	5865
10°	5743	5899	6017
15°	5754	5981	6149
20°	5753	6049	6212
25°	5728	6057	6155
30°	5685	5956	5925
35°	5565	5741	5532
40°	5347	5363	4945
45°	4977	4835	4521
50°	4600	4372	4006
55°	4211	3874	3457
60°	3755	3216	3053
65°	3293	2647	2805
70°	2974	2280	2671
75°	2842	2234	2663
80°	2865	2366	2598
85°	2538	2167	2268



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.5	3.9
10°-20°	1212.6	11.4
20°-30°	1860.0	17.5
30°-40°	2139.3	20.1
40°-50°	1951.2	18.4
50°-60°	1462.4	13.8
60°-70°	899.6	8.5
70°-80°	515.5	4.9
80°-90°	166.9	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°	3484.1	32.8
0°-40°	5623.4	53.0
0°-60°	9037.0	85.1
0°-90°	10619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10619.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4284	4284	4284	4284	4284	
5°	4251	4294	4298	4334	4342	404
15°	4131	4222	4293	4385	4414	1166
25°	3858	3969	4080	4143	4146	1778
35°	3388	3454	3495	3438	3368	2113
45°	2616	2672	2541	2410	2376	2019
55°	1795	1729	1652	1506	1474	1604
65°	1034	925	831	857	881	1040
75°	547	490	430	492	512	585
85°	164	155	140	148	147	183
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4283.6	4283.6	4283.6	4283.6	4283.6
2.5°	4263.4	4294.0	4284.2	4309.3	4327.9
5°	4250.8	4294.0	4298.4	4333.9	4342.1
7.5°	4229.5	4285.8	4305.5	4368.3	4382.5
10°	4203.3	4271.1	4317.5	4385.2	4404.3
12.5°	4171.7	4250.3	4309.3	4392.9	4420.2
15°	4130.7	4222.4	4293.4	4385.2	4414.2
17.5°	4078.8	4185.3	4268.3	4358.4	4388.5
20°	4017.6	4130.1	4224.6	4316.9	4338.2
22.5°	3943.9	4057.0	4164.6	4247.6	4259.0
25°	3858.2	3969.0	4079.9	4142.7	4146.0
27.5°	3764.8	3868.0	3971.8	4005.6	3990.9
30°	3659.3	3751.6	3833.6	3840.7	3813.4
32.5°	3534.3	3617.3	3675.7	3660.4	3614.6
35°	3387.9	3454.0	3494.9	3437.6	3367.7
37.5°	3227.3	3277.0	3290.7	3166.2	3086.4
40°	3044.4	3087.0	3053.1	2880.0	2815.5
42.5°	2833.5	2882.7	2795.8	2624.9	2585.6
45°	2615.6	2672.4	2540.8	2409.7	2375.8
47.5°	2402.1	2453.9	2304.8	2199.4	2149.2
50°	2197.8	2220.2	2088.6	1969.5	1913.8
52.5°	1996.8	1974.4	1881.0	1733.0	1683.8
55°	1795.3	1728.6	1651.6	1505.8	1473.6
57.5°	1593.2	1500.3	1416.2	1304.3	1291.7
60°	1395.5	1281.3	1195.0	1128.4	1134.4
62.5°	1207.0	1090.7	998.4	977.1	1000.0
65°	1034.4	925.2	831.3	856.9	881.0
67.5°	890.8	785.9	690.4	755.9	775.0
70°	755.9	671.2	579.5	664.1	678.9
72.5°	648.3	576.2	496.5	578.9	591.5
75°	546.7	489.9	429.8	492.1	512.3
77.5°	458.2	411.3	370.3	406.9	428.7
80°	369.8	329.9	305.3	321.7	335.3
82.5°	270.9	245.2	227.2	234.3	236.5
85°	164.4	155.1	140.4	148.0	146.9
87.5°	54.1	61.7	65.0	58.4	55.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)