

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-AI-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 (P23765)  
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-AI-UNV-L735-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

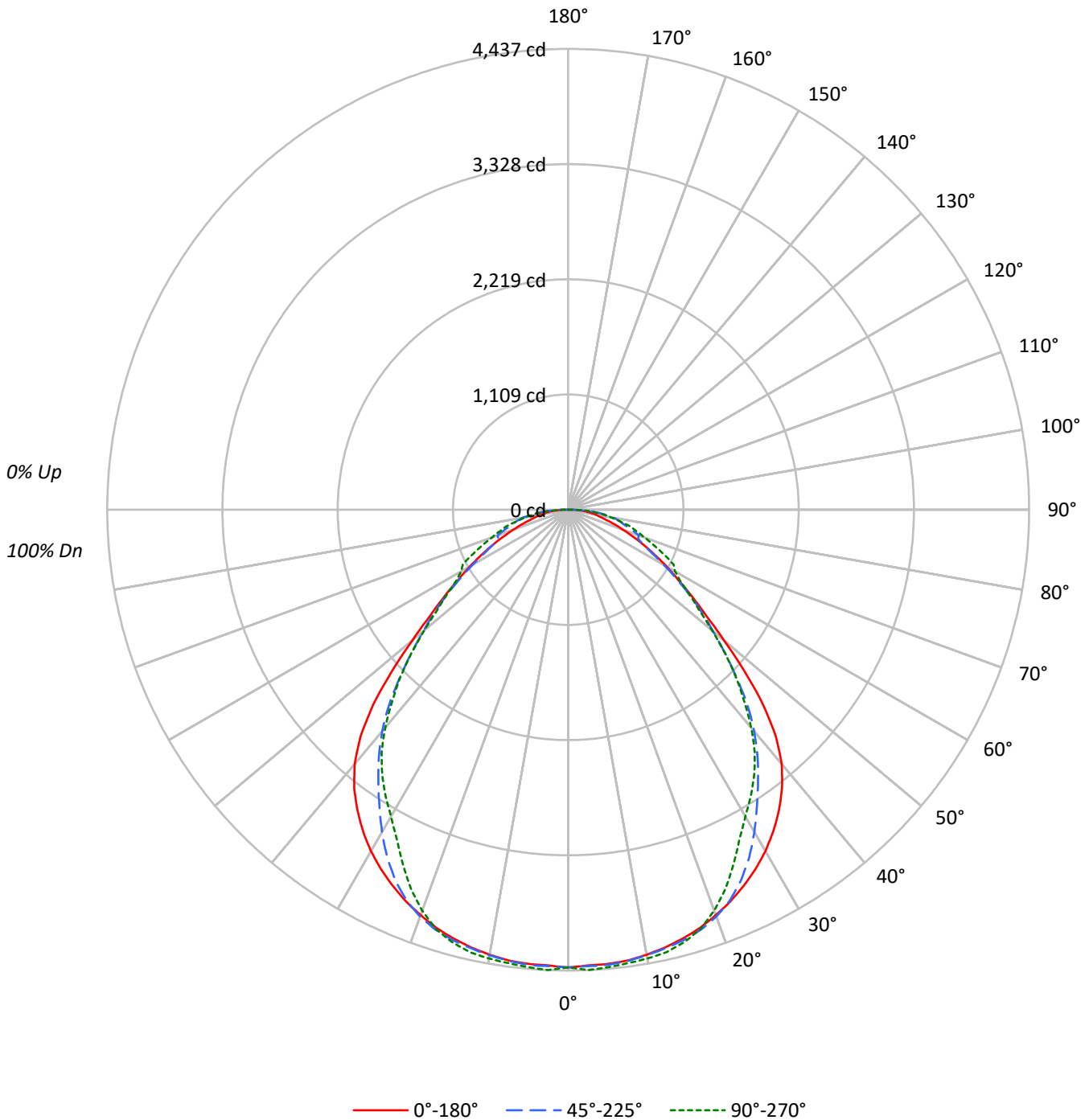
Lumens per Lamp: N/A  
Luminaire Lumens: 10201.0 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50					48				
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45					43				
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40					38				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36					34				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30					29				

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

	0°	45°	90°
0°	5930	5930	5930
5°	5930	5942	5971
10°	5944	5952	5995
15°	5953	5976	6005
20°	5947	5969	5881
25°	5932	5843	5589
30°	5897	5568	5296
35°	5809	5233	5124
40°	5614	4893	4812
45°	5046	4369	4353
50°	4093	3806	3779
55°	3399	3335	3334
60°	2942	2856	3194
65°	2550	2534	3219
70°	2199	2843	3068
75°	1972	2913	3199
80°	2049	3430	3209
85°	2326	3952	3666



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.6	4.1
10°-20°	1211.9	11.9
20°-30°	1799.9	17.6
30°-40°	2043.4	20.0
40°-50°	1826.7	17.9
50°-60°	1263.0	12.4
60°-70°	833.4	8.2
70°-80°	562.2	5.5
80°-90°	240.8	2.4
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°	3431.4	33.6
0°-40°	5474.8	53.7
0°-60°	8564.5	84.0
0°-90°	10201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10201.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4407	4407	4407	4407	4407	
5°	4390	4417	4400	4418	4421	418
15°	4274	4294	4290	4314	4311	1206
25°	3996	4034	3936	3819	3765	1841
35°	3536	3462	3186	3140	3120	2205
45°	2652	2427	2296	2314	2288	2017
55°	1449	1322	1422	1402	1421	1316
65°	801	711	796	931	1011	799
75°	379	477	560	599	615	414
85°	151	210	256	258	238	157
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4407.1	4407.1	4407.1	4407.1	4407.1
2.5°	4392.2	4419.6	4399.2	4418.1	4436.6
5°	4390.2	4417.1	4399.7	4417.6	4421.1
7.5°	4377.7	4402.7	4382.2	4399.7	4403.7
10°	4350.8	4380.2	4356.2	4383.2	4388.2
12.5°	4315.8	4345.8	4324.8	4361.7	4363.7
15°	4273.9	4294.4	4289.9	4313.8	4310.8
17.5°	4221.0	4244.5	4241.0	4247.0	4233.0
20°	4153.6	4180.1	4169.1	4141.7	4107.2
22.5°	4081.3	4113.2	4069.8	4000.4	3952.0
25°	3995.9	4033.9	3936.0	3818.8	3764.9
27.5°	3901.6	3935.5	3772.8	3629.1	3573.2
30°	3795.8	3810.3	3583.7	3447.0	3409.0
32.5°	3673.5	3652.6	3381.6	3291.3	3269.3
35°	3536.3	3461.9	3186.0	3139.5	3119.6
37.5°	3381.6	3245.3	2992.8	2971.4	2950.4
40°	3196.4	2995.3	2785.7	2771.7	2739.8
42.5°	2957.4	2723.3	2555.7	2539.2	2510.7
45°	2652.0	2427.4	2296.1	2313.6	2287.7
47.5°	2300.6	2130.5	2047.1	2095.0	2047.1
50°	1955.3	1841.0	1818.1	1861.5	1805.6
52.5°	1672.3	1569.5	1616.9	1624.4	1591.0
55°	1448.8	1322.5	1421.8	1401.8	1421.3
57.5°	1254.1	1112.9	1235.2	1212.2	1279.1
60°	1093.4	934.7	1061.5	1056.5	1186.8
62.5°	935.7	809.0	910.8	984.1	1144.3
65°	801.0	711.2	796.0	930.7	1011.1
67.5°	671.7	637.8	728.1	803.0	890.8
70°	558.9	576.4	722.6	708.7	780.0
72.5°	464.1	523.5	637.8	640.3	690.7
75°	379.3	477.1	560.4	598.9	615.3
77.5°	315.4	432.7	506.0	519.5	503.5
80°	264.5	381.3	442.7	436.7	414.2
82.5°	213.6	289.0	348.8	354.3	327.9
85°	150.7	209.6	256.0	257.5	237.5
87.5°	80.8	129.3	155.2	159.7	147.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)