

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-LD5-36SE-W-WG-UNV-L735-ED3-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-LD5-36SE-W-WG-UNV-L735-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

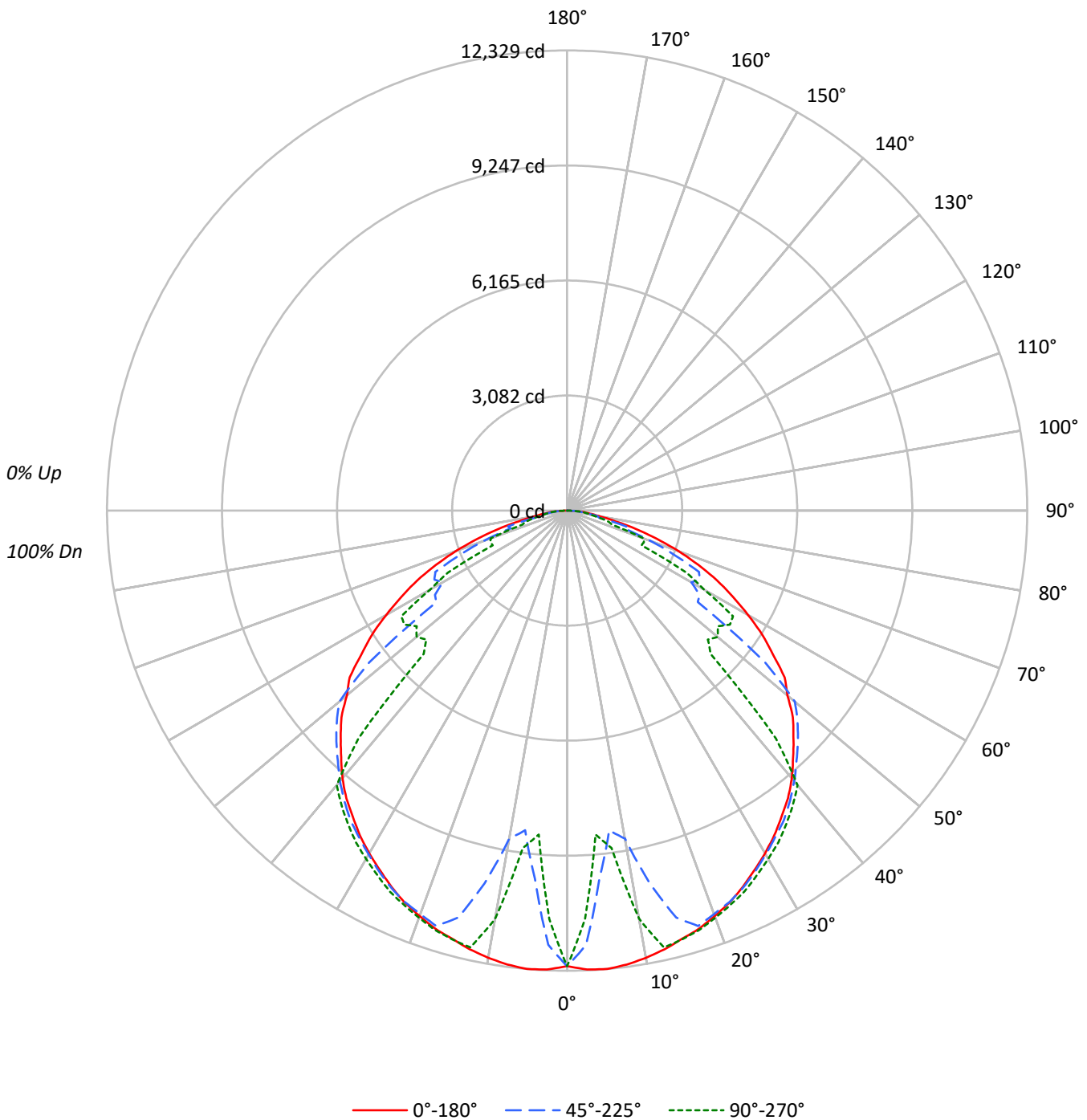
Lumens per Lamp: N/A  
Luminaire Lumens: 32338.0 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 232  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	16424	16424	16424
5°	16652	13378	11765
10°	16623	12200	15174
15°	16550	15724	16564
20°	16550	16475	16621
25°	16520	16557	16709
30°	16472	16527	16740
35°	16446	16629	16823
40°	16448	16628	16866
45°	16319	16639	10340
50°	16135	16672	11020
55°	15794	10025	12490
60°	15067	10334	11437
65°	14117	12407	6998
70°	12466	9399	8578
75°	9932	8544	5949
80°	6843	6175	5112
85°	6556	5701	5408



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	976.1	3.0
10°-20°	3058.0	9.5
20°-30°	5031.0	15.6
30°-40°	6325.8	19.6
40°-50°	6204.1	19.2
50°-60°	5140.4	15.9
60°-70°	3625.6	11.2
70°-80°	1581.8	4.9
80°-90°	395.2	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°	9065.1	28.0
0°-40°	15390.9	47.6
0°-60°	26735.4	82.7
0°-90°	32338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32338.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12206	12206	12206	12206	12206	
5°	12329	11475	9905	8981	8711	###
15°	11881	8251	11288	11928	11891	3360
25°	11128	10182	11153	11227	11255	5129
35°	10013	10007	10124	10191	10242	6273
45°	8576	8603	8744	7745	5434	6620
55°	6733	6954	4274	4859	5325	6024
65°	4434	4696	3897	2998	2198	4360
75°	1911	1873	1644	1074	1144	2049
85°	425	378	369	353	350	441
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12206.5	12206.5	12206.5	12206.5	12206.5
2.5°	12307.3	12051.8	11646.1	11135.2	10954.2
5°	12329.1	11475.3	9904.8	8980.9	8710.8
7.5°	12266.4	10428.8	8634.9	8829.1	9115.1
10°	12167.1	9509.2	8929.8	10506.1	11106.0
12.5°	12040.2	8691.9	10230.3	11867.9	11987.6
15°	11881.1	8251.1	11288.5	11927.8	11891.3
17.5°	11746.8	8509.4	11668.0	11808.1	11781.8
20°	11558.5	9024.6	11505.9	11618.3	11608.1
22.5°	11368.7	9634.7	11352.7	11433.0	11433.0
25°	11127.9	10182.1	11152.7	11227.2	11254.9
27.5°	10863.7	10497.4	10903.1	10964.4	11014.1
30°	10602.5	10542.6	10637.5	10716.3	10774.7
32.5°	10326.6	10303.2	10377.7	10460.9	10535.3
35°	10012.8	10006.9	10123.7	10190.9	10241.9
37.5°	9717.9	9697.5	9805.5	9898.9	9938.3
40°	9364.7	9364.7	9466.9	9561.8	9602.6
42.5°	8961.9	9018.8	9097.6	9195.4	8281.7
45°	8576.5	8602.8	8744.4	7744.6	5434.1
47.5°	8205.8	8239.4	8373.7	4978.7	5114.4
50°	7708.1	7859.9	7965.0	4964.1	5264.7
52.5°	7344.7	7410.3	6686.4	4914.4	5083.7
55°	6733.1	6953.5	4273.7	4859.0	5324.6
57.5°	6210.6	6371.1	4202.2	4978.7	5267.7
60°	5599.0	5844.2	3840.2	4803.5	4250.3
62.5°	5012.2	5245.8	4009.5	3780.3	3599.3
65°	4434.2	4695.5	3897.1	2998.0	2198.1
67.5°	3800.8	3557.0	3108.9	2112.0	2223.0
70°	3168.8	2484.2	2389.3	2361.6	2180.6
72.5°	2519.3	1812.8	1586.6	1771.9	1268.4
75°	1910.6	1872.7	1643.5	1074.3	1144.3
77.5°	1325.3	1351.6	880.1	1048.0	869.9
80°	883.1	764.8	796.9	668.5	659.7
82.5°	611.6	624.7	524.0	507.9	515.2
85°	424.7	378.0	369.3	353.2	350.3
87.5°	141.6	164.9	153.3	138.7	147.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)