

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-AI-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 (P23765)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-AI-UNV-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

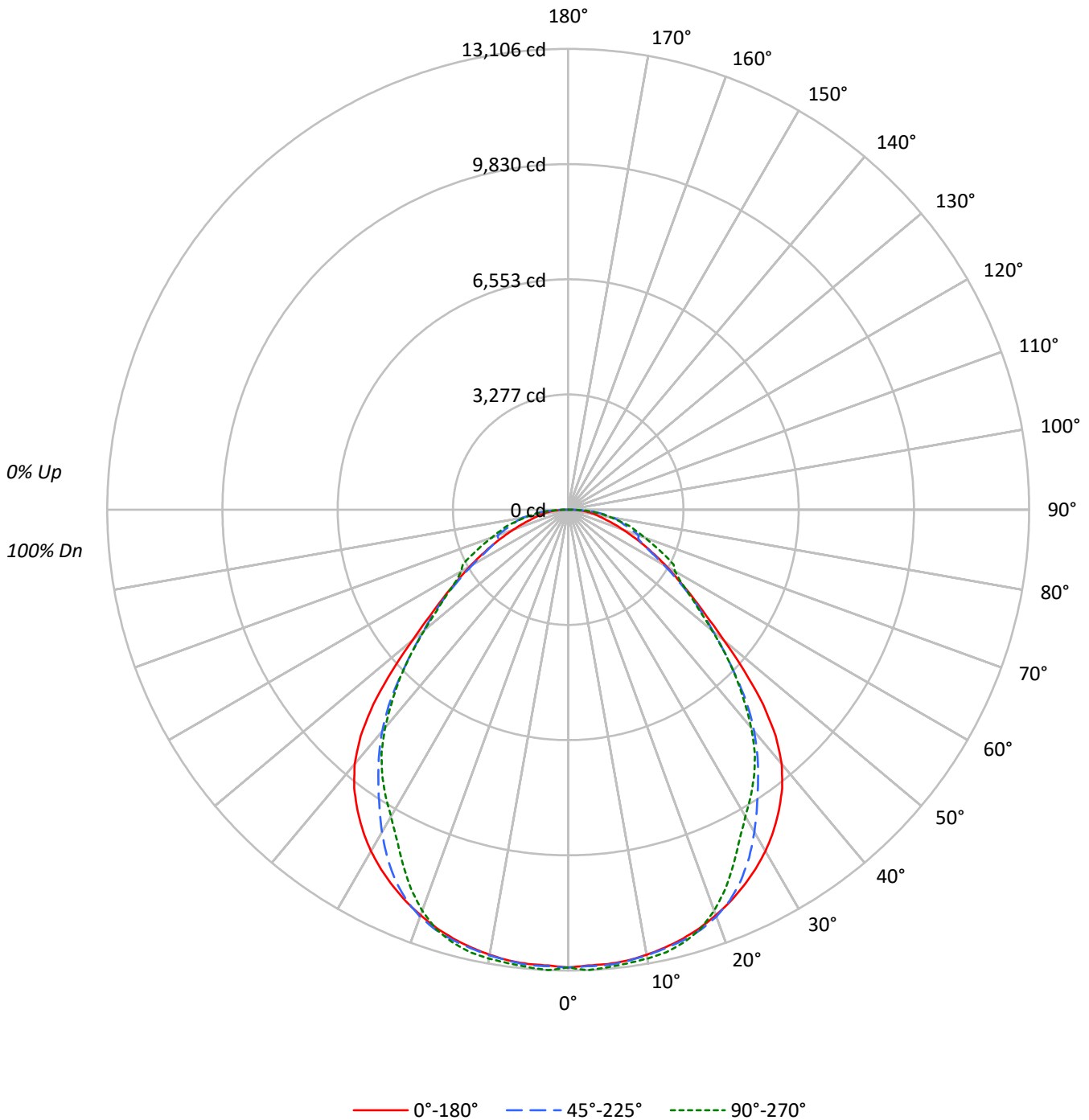
Lumens per Lamp: N/A
Luminaire Lumens: 30135.0 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17517	17517	17517
5°	17516	17554	17640
10°	17560	17582	17711
15°	17587	17653	17739
20°	17569	17635	17373
25°	17525	17262	16511
30°	17421	16448	15646
35°	17159	15459	15137
40°	16585	14454	14216
45°	14907	12907	12859
50°	12091	11242	11165
55°	10040	9853	9849
60°	8692	8438	9434
65°	7533	7486	9509
70°	6496	8398	9065
75°	5824	8607	9450
80°	6055	10133	9481
85°	6873	11676	10834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1239.6	4.1
10°-20°	3580.1	11.9
20°-30°	5317.2	17.6
30°-40°	6036.5	20.0
40°-50°	5396.3	17.9
50°-60°	3731.0	12.4
60°-70°	2462.0	8.2
70°-80°	1661.0	5.5
80°-90°	711.4	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°	10136.8	33.6
0°-40°	16173.3	53.7
0°-60°	25300.7	84.0
0°-90°	30135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13019	13019	13019	13019	13019	
5°	12969	13049	12997	13050	13060	###
15°	12626	12686	12673	12744	12735	3564
25°	11804	11916	11628	11281	11122	5439
35°	10447	10227	9412	9275	9216	6514
45°	7834	7171	6783	6835	6758	5958
55°	4280	3907	4200	4141	4199	3887
65°	2366	2101	2352	2750	2987	2361
75°	1120	1409	1656	1769	1818	1224
85°	445	619	756	761	702	464
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13019.3	13019.3	13019.3	13019.3	13019.3
2.5°	12975.0	13056.1	12995.7	13051.7	13106.2
5°	12969.1	13048.7	12997.1	13050.2	13060.5
7.5°	12932.3	13006.0	12945.5	12997.1	13008.9
10°	12852.7	12939.6	12868.9	12948.5	12963.2
12.5°	12749.5	12837.9	12776.0	12885.1	12891.0
15°	12625.6	12686.1	12672.8	12743.6	12734.7
17.5°	12469.4	12538.6	12528.3	12546.0	12504.7
20°	12270.3	12348.5	12316.0	12234.9	12133.2
22.5°	12056.6	12150.9	12022.6	11817.7	11674.7
25°	11804.5	11916.5	11627.5	11281.1	11121.9
27.5°	11525.8	11626.1	11145.5	10720.9	10555.8
30°	11213.3	11256.0	10586.7	10182.8	10070.7
32.5°	10852.1	10790.2	9989.6	9722.8	9657.9
35°	10446.7	10227.0	9411.7	9274.6	9215.6
37.5°	9989.6	9587.2	8841.2	8777.8	8715.9
40°	9442.7	8848.6	8229.4	8188.1	8093.7
42.5°	8736.5	8045.1	7549.7	7501.1	7417.0
45°	7834.3	7170.8	6783.1	6834.7	6758.0
47.5°	6796.4	6293.6	6047.4	6189.0	6047.4
50°	5776.2	5438.6	5370.8	5499.0	5333.9
52.5°	4940.3	4636.6	4776.6	4798.7	4700.0
55°	4279.8	3906.8	4200.2	4141.2	4198.7
57.5°	3704.8	3287.6	3648.8	3581.0	3778.5
60°	3230.1	2761.3	3135.8	3121.0	3505.8
62.5°	2764.3	2389.8	2690.5	2907.3	3380.5
65°	2366.2	2100.8	2351.5	2749.5	2986.9
67.5°	1984.4	1884.1	2151.0	2372.1	2631.6
70°	1651.2	1702.8	2134.7	2093.5	2304.3
72.5°	1371.1	1546.5	1884.1	1891.5	2040.4
75°	1120.4	1409.4	1655.6	1769.1	1817.8
77.5°	931.7	1278.2	1494.9	1534.7	1487.5
80°	781.4	1126.3	1307.7	1290.0	1223.6
82.5°	631.0	853.6	1030.5	1046.7	968.6
85°	445.2	619.2	756.3	760.7	701.8
87.5°	238.8	381.8	458.5	471.8	436.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)