

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-AWG-UNV-L750-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 (P23764)
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-AWG-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

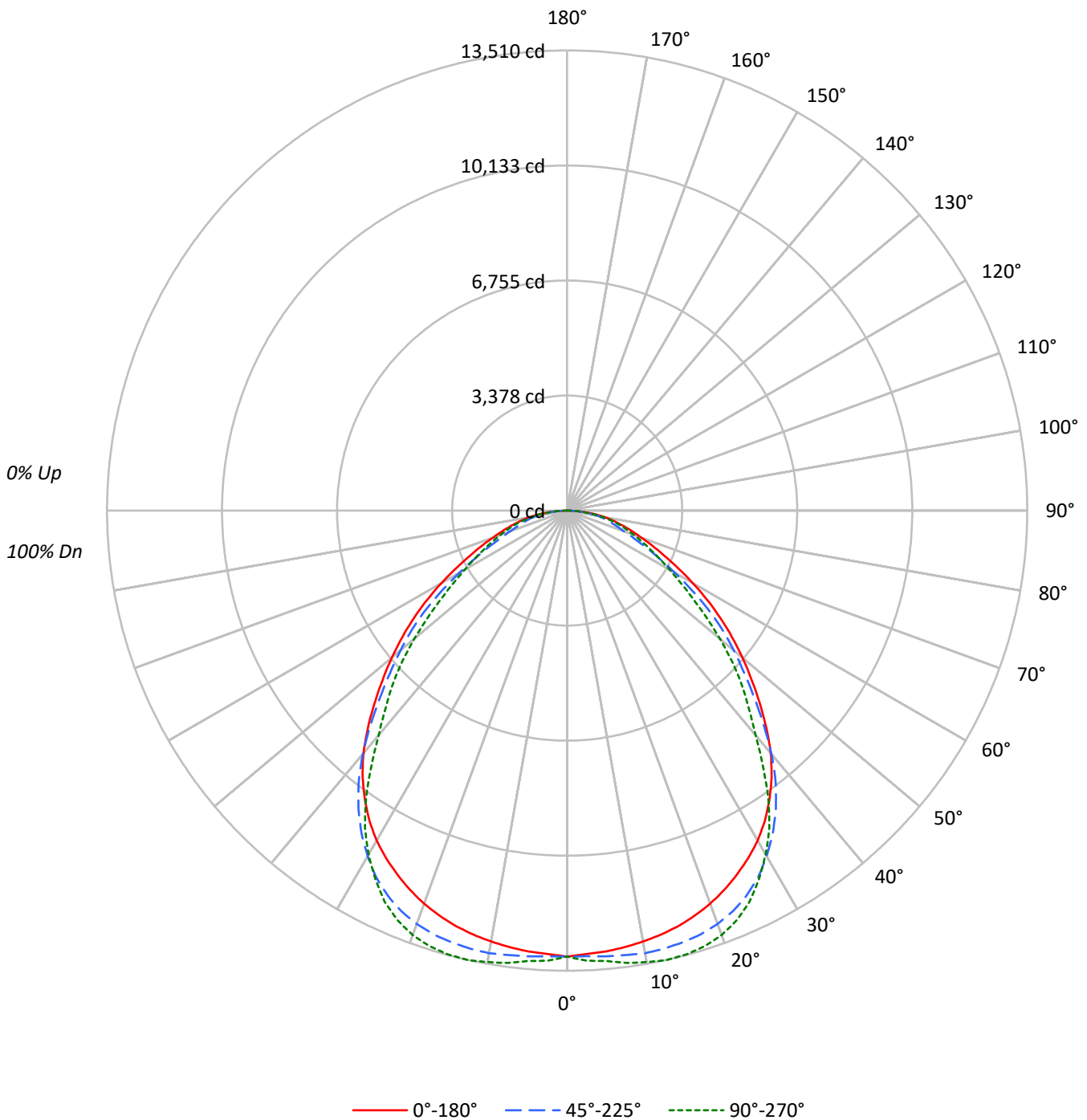
Lumens per Lamp: N/A
Luminaire Lumens: 32457.0 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	17616	17616	17616
5°	17548	17745	17925
10°	17553	18030	18392
15°	17587	18280	18794
20°	17583	18489	18986
25°	17507	18513	18813
30°	17377	18204	18109
35°	17009	17546	16907
40°	16344	16390	15115
45°	15212	14777	13818
50°	14061	13362	12244
55°	12872	11842	10565
60°	11478	9829	9330
65°	10066	8089	8573
70°	9089	6968	8163
75°	8687	6830	8140
80°	8757	7231	7942
85°	7757	6623	6933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1257.7	3.9
10°-20°	3706.4	11.4
20°-30°	5685.1	17.5
30°-40°	6538.7	20.1
40°-50°	5963.8	18.4
50°-60°	4469.9	13.8
60°-70°	2749.5	8.5
70°-80°	1575.6	4.9
80°-90°	510.1	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°	10649.3	32.8
0°-40°	17188.0	53.0
0°-60°	27621.7	85.1
0°-90°	32457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13093	13093	13093	13093	13093	
5°	12993	13125	13138	13246	13272	###
15°	12626	12906	13123	13403	13492	3564
25°	11792	12131	12470	12662	12672	5434
35°	10355	10557	10682	10507	10293	6458
45°	7995	8168	7766	7365	7262	6170
55°	5487	5284	5048	4602	4504	4902
65°	3162	2828	2541	2619	2693	3179
75°	1671	1497	1314	1504	1566	1787
85°	502	474	429	452	449	561
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13092.9	13092.9	13092.9	13092.9	13092.9
2.5°	13031.1	13124.6	13094.6	13171.3	13228.1
5°	12992.7	13124.6	13138.0	13246.5	13271.5
7.5°	12927.6	13099.6	13159.7	13351.6	13395.0
10°	12847.5	13054.5	13196.4	13403.4	13461.8
12.5°	12750.7	12991.1	13171.3	13426.8	13510.2
15°	12625.5	12905.9	13122.9	13403.4	13491.9
17.5°	12466.9	12792.4	13046.1	13321.6	13413.4
20°	12279.9	12623.8	12912.6	13194.7	13259.8
22.5°	12054.5	12400.1	12729.0	12982.7	13017.8
25°	11792.4	12131.3	12470.2	12662.2	12672.2
27.5°	11507.0	11822.5	12139.7	12243.2	12198.1
30°	11184.8	11466.9	11717.3	11739.0	11655.6
32.5°	10802.5	11056.3	11234.9	11188.1	11047.9
35°	10355.1	10557.1	10682.3	10507.0	10293.3
37.5°	9864.3	10016.2	10058.0	9677.4	9433.6
40°	9305.1	9435.3	9331.8	8802.6	8605.6
42.5°	8660.7	8810.9	8545.5	8023.0	7902.8
45°	7994.6	8168.2	7765.9	7365.3	7261.8
47.5°	7341.9	7500.5	7044.8	6722.6	6569.0
50°	6717.6	6786.0	6383.7	6019.8	5849.5
52.5°	6103.2	6034.8	5749.3	5296.9	5146.7
55°	5487.2	5283.6	5048.2	4602.5	4504.0
57.5°	4869.6	4585.8	4328.7	3986.5	3948.1
60°	4265.2	3916.3	3652.6	3448.9	3467.3
62.5°	3689.3	3333.7	3051.6	2986.5	3056.6
65°	3161.8	2827.9	2540.8	2619.2	2692.7
67.5°	2722.7	2402.2	2110.1	2310.4	2368.8
70°	2310.4	2051.7	1771.2	2030.0	2075.0
72.5°	1981.5	1761.2	1517.5	1769.5	1807.9
75°	1671.0	1497.4	1313.8	1504.1	1565.9
77.5°	1400.6	1257.0	1131.8	1243.7	1310.5
80°	1130.2	1008.3	933.2	983.3	1025.0
82.5°	828.0	749.5	694.5	716.2	722.8
85°	502.5	474.1	429.0	452.4	449.1
87.5°	165.3	188.6	198.7	178.6	168.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)