

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-CL-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 (P23762)
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-CL-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

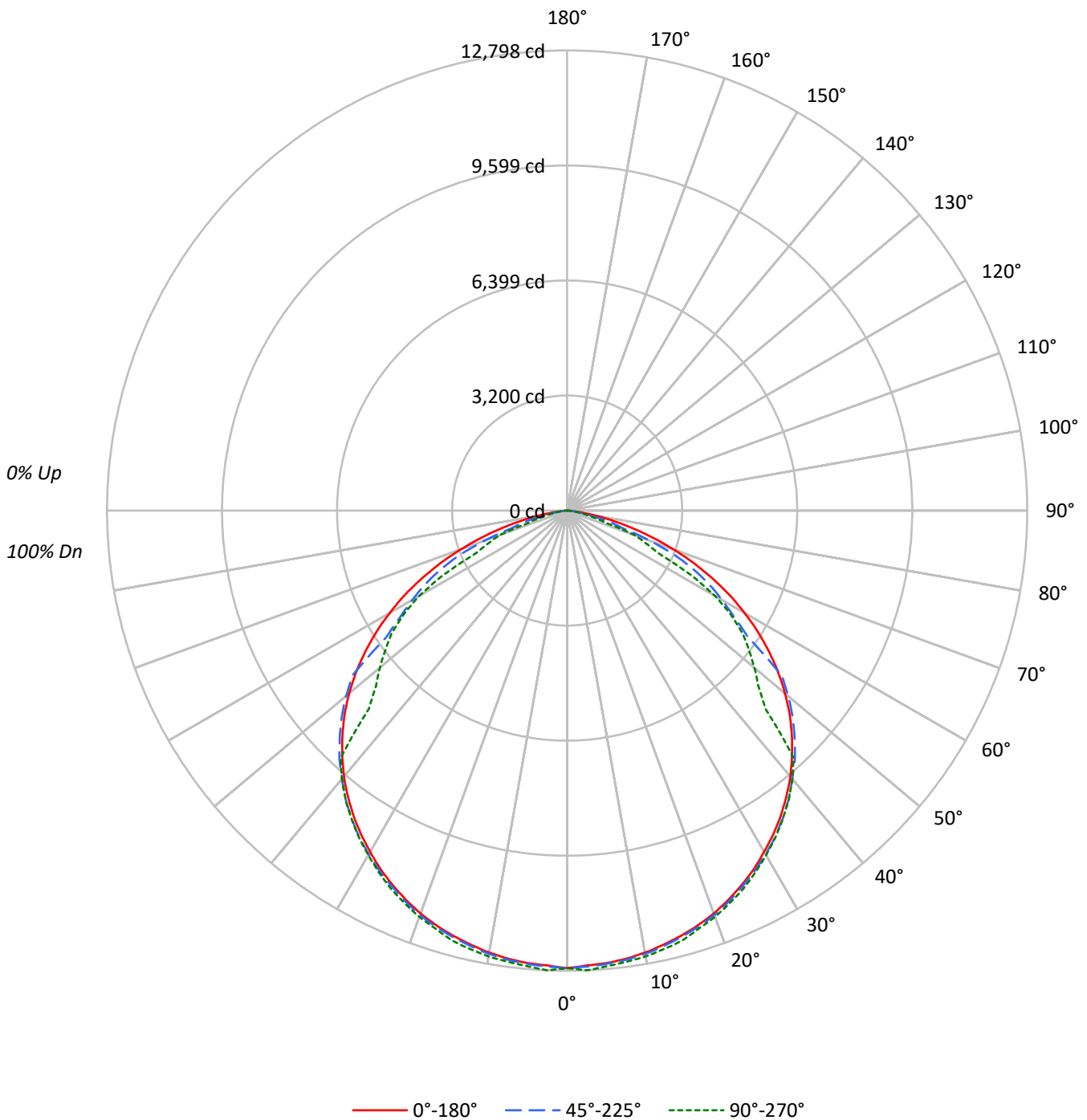
Lumens per Lamp: N/A
Luminaire Lumens: 34397.0 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17119	17119	17119
5°	17057	17095	17178
10°	17055	17104	17203
15°	17054	17106	17244
20°	17075	17140	17220
25°	17056	17120	17224
30°	17024	17149	17187
35°	17016	17171	17183
40°	16963	17112	17112
45°	16817	17020	14830
50°	16557	16807	14229
55°	16088	14387	13976
60°	15333	13373	12769
65°	14180	12414	8843
70°	12347	9659	7880
75°	9753	6483	4236
80°	6278	3097	2641
85°	2583	1890	2081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1206.9	3.5
10°-20°	3478.8	10.1
20°-30°	5333.5	15.5
30°-40°	6537.0	19.0
40°-50°	6720.5	19.5
50°-60°	5735.7	16.7
60°-70°	3791.9	11.0
70°-80°	1404.9	4.1
80°-90°	187.9	0.5
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°	10019.2	29.1
0°-40°	16556.1	48.1
0°-60°	29012.3	84.3
0°-90°	34397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34397.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12723	12723	12723	12723	12723	
5°	12629	12717	12657	12706	12719	###
15°	12243	12317	12280	12373	12379	3458
25°	11489	11549	11532	11636	11602	5297
35°	10359	10431	10454	10519	10462	6480
45°	8838	8926	8945	8931	7794	6811
55°	6858	6984	6133	5955	5958	6119
65°	4454	4491	3899	3207	2778	4392
75°	1876	1644	1247	838	815	2013
85°	167	119	122	133	135	277
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12723.3	12723.3	12723.3	12723.3	12723.3
2.5°	12661.4	12740.4	12693.9	12752.8	12797.7
5°	12628.8	12717.1	12656.7	12706.3	12718.7
7.5°	12573.1	12655.2	12599.4	12664.5	12655.2
10°	12483.2	12557.6	12518.8	12587.0	12591.6
12.5°	12368.6	12442.9	12407.3	12490.9	12489.4
15°	12243.1	12317.4	12280.3	12373.2	12379.4
17.5°	12095.9	12164.1	12136.2	12221.4	12187.3
20°	11925.5	11984.4	11970.4	12051.0	12026.2
22.5°	11716.4	11776.8	11762.8	11855.8	11818.6
25°	11488.6	11549.1	11532.0	11635.8	11601.7
27.5°	11242.3	11299.6	11298.1	11395.7	11343.0
30°	10957.3	11033.2	11037.8	11124.6	11062.6
32.5°	10675.3	10746.6	10766.7	10830.2	10777.6
35°	10359.3	10430.6	10453.8	10518.9	10461.5
37.5°	10018.5	10078.9	10120.7	10168.7	10123.8
40°	9657.5	9711.7	9742.7	9801.6	9742.7
42.5°	9254.7	9332.2	9375.6	9417.4	9321.3
45°	8838.0	8926.3	8944.9	8931.0	7793.9
47.5°	8396.5	8492.5	8503.4	7415.9	7206.7
50°	7910.1	8030.9	8029.3	6853.5	6797.8
52.5°	7403.5	7519.7	7515.0	6413.6	6376.4
55°	6858.2	6983.7	6133.2	5955.0	5958.1
57.5°	6302.0	6391.9	5502.6	5510.4	5408.1
60°	5697.8	5783.0	4969.7	4921.7	4745.1
62.5°	5092.1	5127.7	4453.9	4219.9	3883.8
65°	4453.9	4491.0	3899.3	3206.8	2777.7
67.5°	3798.6	3835.7	3236.2	2385.7	2353.2
70°	3138.6	2835.0	2455.4	1987.6	2003.1
72.5°	2488.0	2178.1	1604.9	1539.9	1112.3
75°	1876.0	1643.7	1247.1	838.1	814.9
77.5°	1305.9	1132.4	667.7	571.6	534.5
80°	810.2	568.5	399.7	354.8	340.8
82.5°	410.5	326.9	216.9	216.9	216.9
85°	167.3	119.3	122.4	133.2	134.8
87.5°	35.6	48.0	58.9	60.4	58.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)