

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-L740-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-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

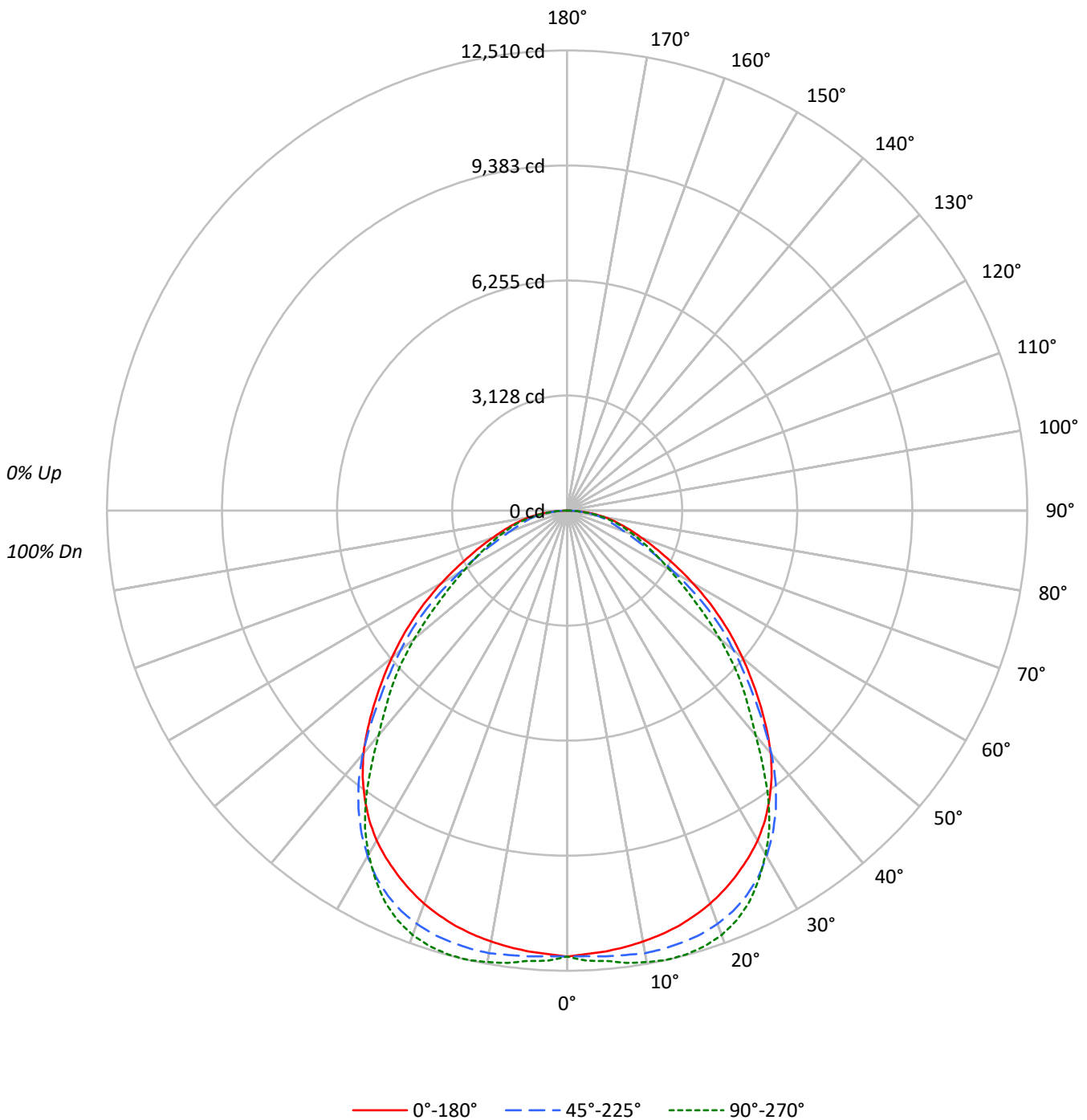
Lumens per Lamp: N/A
Luminaire Lumens: 30053.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	16312	16312	16312
5°	16249	16430	16597
10°	16253	16694	17030
15°	16284	16926	17402
20°	16281	17119	17580
25°	16210	17142	17420
30°	16090	16856	16767
35°	15749	16247	15655
40°	15133	15176	13995
45°	14086	13683	12794
50°	13020	12373	11337
55°	11918	10965	9783
60°	10627	9101	8639
65°	9321	7490	7938
70°	8416	6452	7558
75°	8044	6324	7537
80°	8109	6695	7354
85°	7183	6133	6419



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1164.6	3.9
10°-20°	3431.9	11.4
20°-30°	5264.1	17.5
30°-40°	6054.4	20.1
40°-50°	5522.1	18.4
50°-60°	4138.8	13.8
60°-70°	2545.9	8.5
70°-80°	1458.9	4.9
80°-90°	472.3	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°	9860.5	32.8
0°-40°	15914.9	53.0
0°-60°	25575.8	85.1
0°-90°	30053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30053.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12123	12123	12123	12123	12123	
5°	12030	12152	12165	12265	12288	###
15°	11690	11950	12151	12411	12493	3300
25°	10919	11233	11547	11724	11734	5031
35°	9588	9775	9891	9729	9531	5980
45°	7402	7563	7191	6820	6724	5713
55°	5081	4892	4674	4262	4170	4539
65°	2928	2618	2353	2425	2493	2944
75°	1547	1386	1216	1393	1450	1655
85°	465	439	397	419	416	519
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12123.1	12123.1	12123.1	12123.1	12123.1
2.5°	12065.9	12152.5	12124.7	12195.8	12248.3
5°	12030.4	12152.5	12164.9	12265.3	12288.5
7.5°	11970.1	12129.3	12185.0	12362.7	12402.9
10°	11895.9	12087.6	12219.0	12410.6	12464.7
12.5°	11806.3	12028.8	12195.8	12432.3	12509.6
15°	11690.3	11950.0	12151.0	12410.6	12492.6
17.5°	11543.5	11844.9	12079.9	12334.9	12419.9
20°	11370.4	11688.8	11956.2	12217.4	12277.7
22.5°	11161.7	11481.7	11786.2	12021.1	12053.6
25°	10919.0	11232.8	11546.6	11724.3	11733.6
27.5°	10654.7	10946.8	11240.5	11336.4	11294.6
30°	10356.4	10617.6	10849.5	10869.5	10792.3
32.5°	10002.4	10237.3	10402.7	10359.5	10229.6
35°	9588.1	9775.2	9891.1	9728.8	9530.9
37.5°	9133.7	9274.4	9313.0	8960.6	8734.9
40°	8615.9	8736.4	8640.6	8150.6	7968.2
42.5°	8019.2	8158.3	7912.6	7428.8	7317.5
45°	7402.5	7563.2	7190.7	6819.7	6723.9
47.5°	6798.1	6944.9	6523.0	6224.6	6082.4
50°	6220.0	6283.4	5910.9	5573.9	5416.2
52.5°	5651.2	5587.8	5323.5	4904.6	4765.5
55°	5080.8	4892.2	4674.3	4261.6	4170.4
57.5°	4508.9	4246.1	4008.1	3691.2	3655.6
60°	3949.3	3626.3	3382.0	3193.5	3210.5
62.5°	3416.1	3086.8	2825.6	2765.3	2830.2
65°	2927.6	2618.5	2352.6	2425.2	2493.3
67.5°	2521.1	2224.3	1953.8	2139.3	2193.4
70°	2139.3	1899.7	1640.0	1879.6	1921.3
72.5°	1834.8	1630.7	1405.1	1638.5	1674.0
75°	1547.3	1386.5	1216.5	1392.7	1449.9
77.5°	1296.9	1163.9	1048.0	1151.6	1213.4
80°	1046.5	933.6	864.1	910.4	949.1
82.5°	766.7	694.0	643.0	663.1	669.3
85°	465.3	439.0	397.3	418.9	415.8
87.5°	153.0	174.7	183.9	165.4	156.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)