

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-L840-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-L840-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

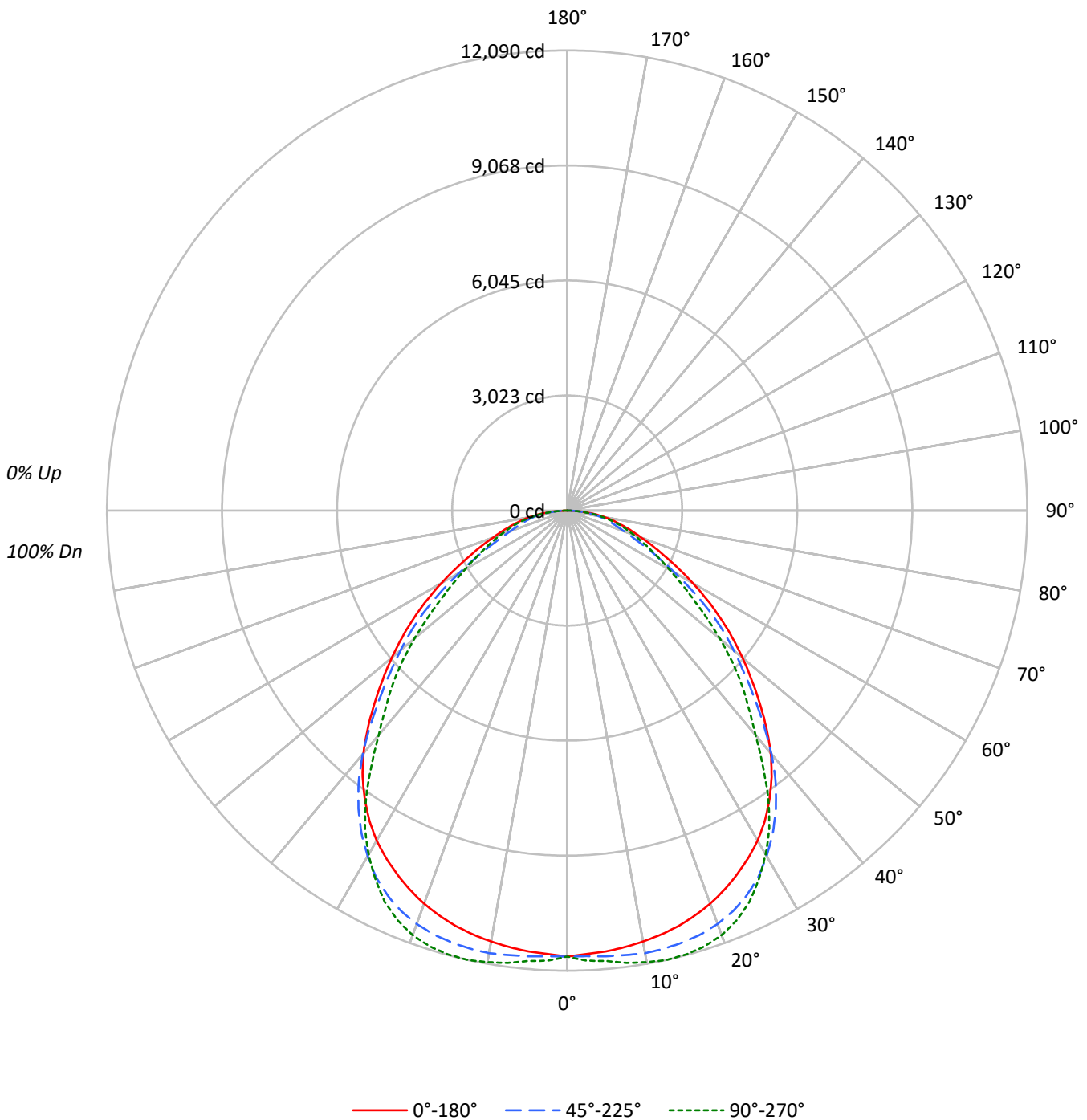
Lumens per Lamp: N/A
Luminaire Lumens: 29046.0 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	15765	15765	15765
5°	15704	15880	16041
10°	15708	16135	16459
15°	15738	16359	16819
20°	15735	16546	16991
25°	15667	16568	16836
30°	15551	16291	16205
35°	15221	15702	15130
40°	14626	14668	13526
45°	13613	13224	12366
50°	12584	11958	10957
55°	11519	10598	9455
60°	10271	8796	8350
65°	9008	7239	7672
70°	8134	6236	7305
75°	7774	6112	7285
80°	7837	6471	7108
85°	6942	5927	6204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1125.5	3.9
10°-20°	3316.9	11.4
20°-30°	5087.7	17.5
30°-40°	5851.6	20.1
40°-50°	5337.0	18.4
50°-60°	4000.1	13.8
60°-70°	2460.6	8.5
70°-80°	1410.1	4.9
80°-90°	456.5	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°	9530.1	32.8
0°-40°	15381.7	53.0
0°-60°	24718.8	85.1
0°-90°	29046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29046.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11717	11717	11717	11717	11717	
5°	11627	11745	11757	11854	11877	###
15°	11299	11550	11744	11995	12074	3189
25°	10553	10856	11160	11332	11340	4863
35°	9267	9448	9560	9403	9212	5779
45°	7154	7310	6950	6591	6499	5521
55°	4911	4728	4518	4119	4031	4387
65°	2830	2531	2274	2344	2410	2845
75°	1495	1340	1176	1346	1401	1599
85°	450	424	384	405	402	502
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11716.9	11716.9	11716.9	11716.9	11716.9
2.5°	11661.6	11745.3	11718.4	11787.1	11837.9
5°	11627.3	11745.3	11757.3	11854.4	11876.8
7.5°	11569.0	11722.9	11776.7	11948.5	11987.3
10°	11497.3	11682.6	11809.5	11994.8	12047.1
12.5°	11410.7	11625.8	11787.1	12015.7	12090.4
15°	11298.6	11549.6	11743.8	11994.8	12074.0
17.5°	11156.7	11448.0	11675.1	11921.6	12003.8
20°	10989.4	11297.1	11555.6	11808.0	11866.3
22.5°	10787.7	11096.9	11391.2	11618.3	11649.7
25°	10553.1	10856.4	11159.7	11331.5	11340.4
27.5°	10297.7	10580.0	10863.9	10956.5	10916.2
30°	10009.4	10261.8	10485.9	10505.3	10430.6
32.5°	9667.2	9894.3	10054.2	10012.3	9886.8
35°	9266.9	9447.6	9559.7	9402.8	9211.6
37.5°	8827.7	8963.6	9000.9	8660.3	8442.2
40°	8327.2	8443.7	8351.1	7877.5	7701.2
42.5°	7750.5	7885.0	7647.4	7179.8	7072.3
45°	7154.4	7309.8	6949.8	6591.2	6498.6
47.5°	6570.3	6712.2	6304.4	6016.1	5878.6
50°	6011.6	6072.8	5712.8	5387.1	5234.7
52.5°	5461.8	5400.6	5145.1	4740.2	4605.8
55°	4910.6	4728.3	4517.7	4118.8	4030.6
57.5°	4357.8	4103.8	3873.8	3567.5	3533.2
60°	3817.0	3504.8	3268.7	3086.5	3102.9
62.5°	3301.6	2983.4	2730.9	2672.6	2735.4
65°	2829.5	2530.7	2273.8	2344.0	2409.7
67.5°	2436.6	2149.8	1888.3	2067.6	2119.9
70°	2067.6	1836.0	1585.1	1816.6	1857.0
72.5°	1773.3	1576.1	1358.0	1583.6	1617.9
75°	1495.4	1340.1	1175.7	1346.0	1401.3
77.5°	1253.4	1124.9	1012.9	1113.0	1172.7
80°	1011.4	902.3	835.1	879.9	917.3
82.5°	741.0	670.8	621.5	640.9	646.9
85°	449.7	424.3	383.9	404.9	401.9
87.5°	147.9	168.8	177.8	159.9	150.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)