

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-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 (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-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

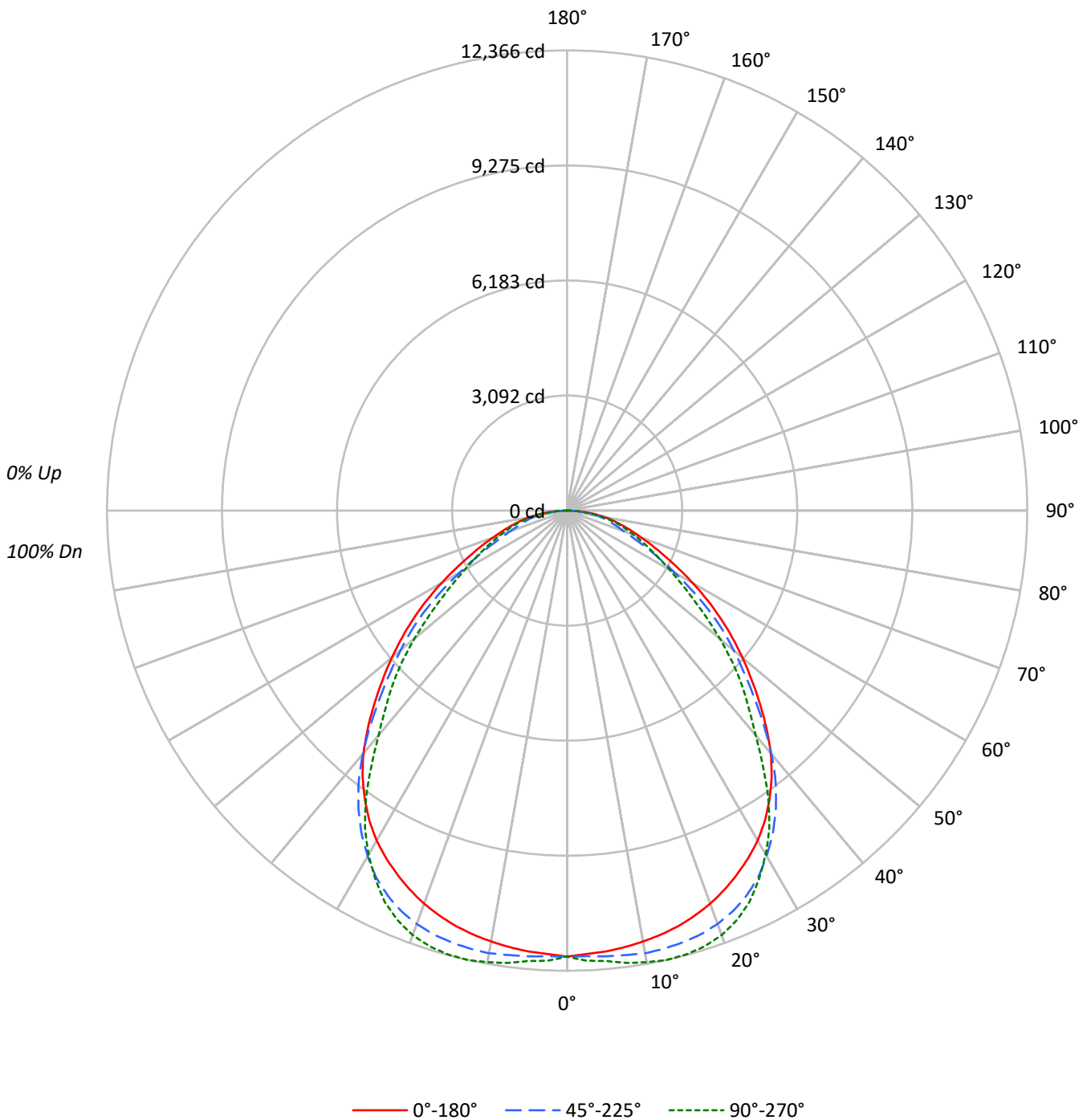
Lumens per Lamp: N/A
Luminaire Lumens: 29709.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	16125	16125	16125
5°	16063	16242	16407
10°	16067	16503	16835
15°	16098	16732	17202
20°	16094	16923	17379
25°	16025	16946	17220
30°	15906	16663	16575
35°	15569	16061	15476
40°	14960	15003	13835
45°	13924	13526	12648
50°	12871	12231	11207
55°	11782	10839	9671
60°	10506	8997	8540
65°	9214	7404	7847
70°	8320	6378	7472
75°	7952	6252	7451
80°	8016	6619	7270
85°	7100	6062	6345



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1151.2	3.9
10°-20°	3392.6	11.4
20°-30°	5203.8	17.5
30°-40°	5985.1	20.1
40°-50°	5458.9	18.4
50°-60°	4091.4	13.8
60°-70°	2516.7	8.5
70°-80°	1442.2	4.9
80°-90°	466.9	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°	9747.6	32.8
0°-40°	15732.8	53.0
0°-60°	25283.1	85.1
0°-90°	29709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11984	11984	11984	11984	11984	
5°	11893	12013	12026	12125	12148	###
15°	11556	11813	12012	12269	12350	3262
25°	10794	11104	11414	11590	11599	4974
35°	9478	9663	9778	9617	9422	5911
45°	7318	7477	7108	6742	6647	5647
55°	5023	4836	4621	4213	4123	4487
65°	2894	2588	2326	2398	2465	2910
75°	1530	1371	1203	1377	1433	1636
85°	460	434	393	414	411	513
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11984.4	11984.4	11984.4	11984.4	11984.4
2.5°	11927.8	12013.4	11985.9	12056.2	12108.1
5°	11892.7	12013.4	12025.6	12124.9	12147.9
7.5°	11833.1	11990.5	12045.5	12221.2	12260.9
10°	11759.7	11949.2	12079.1	12268.6	12322.1
12.5°	11671.1	11891.2	12056.2	12290.0	12366.4
15°	11556.5	11813.2	12011.9	12268.6	12349.6
17.5°	11411.4	11709.3	11941.6	12193.7	12277.7
20°	11240.2	11555.0	11819.3	12077.6	12137.2
22.5°	11033.9	11350.2	11651.3	11883.5	11915.6
25°	10794.0	11104.2	11414.4	11590.1	11599.3
27.5°	10532.7	10821.5	11111.9	11206.6	11165.3
30°	10237.8	10496.1	10725.3	10745.1	10668.7
32.5°	9887.9	10120.2	10283.7	10240.9	10112.5
35°	9478.4	9663.3	9777.9	9617.4	9421.9
37.5°	9029.1	9168.2	9206.4	8858.0	8634.9
40°	8517.3	8636.4	8541.7	8057.3	7877.0
42.5°	7927.4	8065.0	7822.0	7343.7	7233.7
45°	7317.8	7476.7	7108.4	6741.7	6646.9
47.5°	6720.3	6865.5	6448.3	6153.4	6012.8
50°	6148.8	6211.5	5843.2	5510.1	5354.2
52.5°	5586.5	5523.8	5262.5	4848.5	4710.9
55°	5022.6	4836.2	4620.8	4212.8	4122.6
57.5°	4457.3	4197.5	3962.2	3648.9	3613.8
60°	3904.1	3584.8	3343.3	3156.9	3173.7
62.5°	3377.0	3051.5	2793.2	2733.7	2797.8
65°	2894.1	2588.5	2325.7	2397.5	2464.7
67.5°	2492.2	2198.8	1931.4	2114.8	2168.3
70°	2114.8	1878.0	1621.2	1858.1	1899.3
72.5°	1813.8	1612.1	1389.0	1619.7	1654.9
75°	1529.6	1370.6	1202.6	1376.8	1433.3
77.5°	1282.0	1150.6	1036.0	1138.4	1199.5
80°	1034.5	922.9	854.2	900.0	938.2
82.5°	757.9	686.1	635.7	655.5	661.6
85°	459.9	434.0	392.7	414.1	411.0
87.5°	151.3	172.7	181.8	163.5	154.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)