

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-N-CLWG-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-N-CLWG-UNV-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

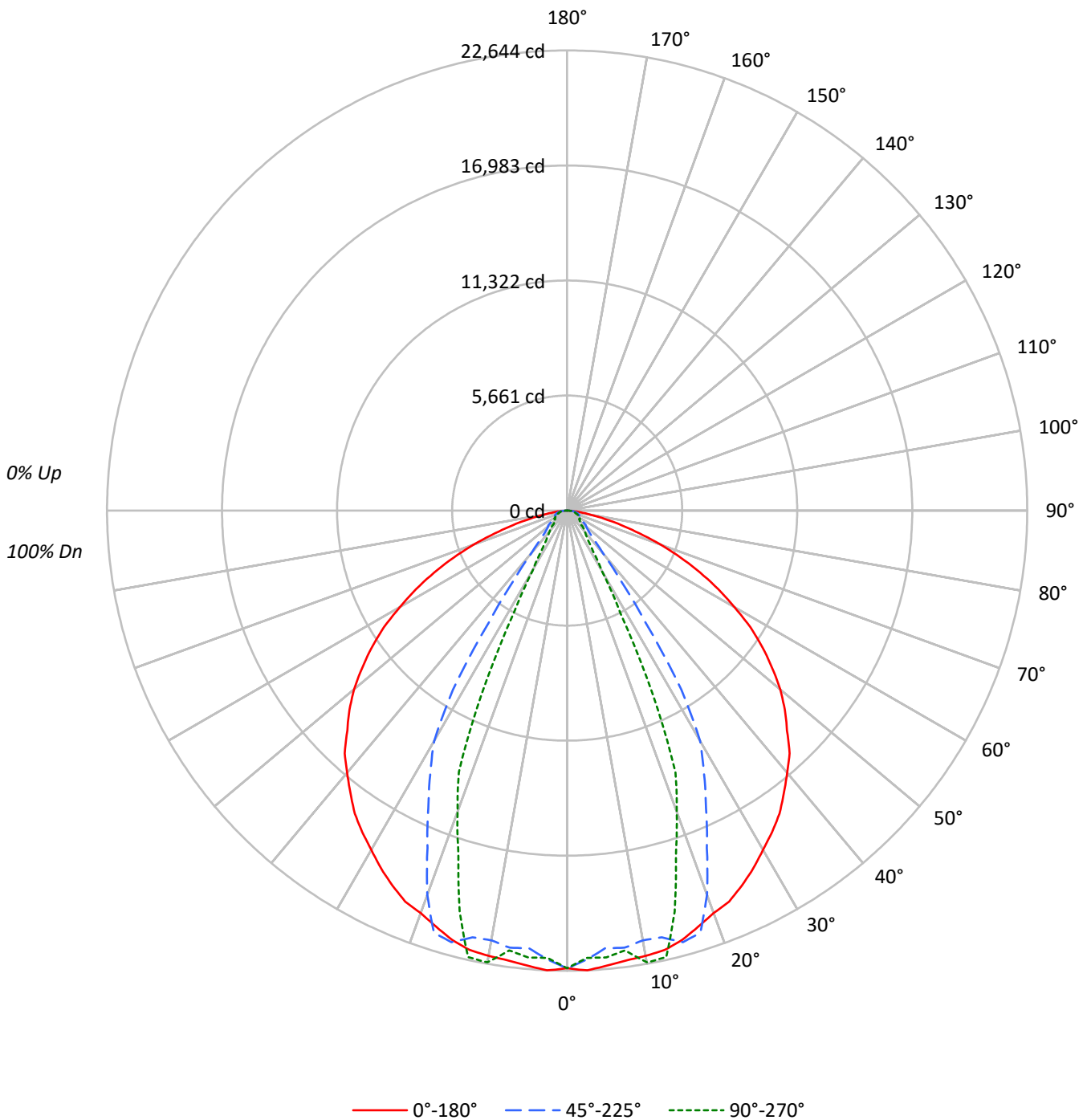
Lumens per Lamp: N/A
Luminaire Lumens: 30277.0 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-36SE-N-CLWG-UNV-L735-ED3-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-36SE-N-CLWG-UNV-L735-ED3-U

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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	30302	30302	30302
5°	30353	29196	29811
10°	30397	29337	30843
15°	30464	30623	28462
20°	30176	28803	22591
25°	30220	24012	14757
30°	29949	20341	5301
35°	29917	11019	2982
40°	29578	4804	2335
45°	29121	2969	1831
50°	28667	2586	1728
55°	27541	2243	1691
60°	25552	2010	1817
65°	22968	2271	1986
70°	19263	2442	2048
75°	14400	2785	2217
80°	9044	3234	2528
85°	6022	4054	3702



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-36SE-N-CLWG-UNV-L735-ED3-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2087.4	6.9
10°-20°	5894.5	19.5
20°-30°	7217.9	23.8
30°-40°	5668.3	18.7
40°-50°	4203.4	13.9
50°-60°	2558.9	8.5
60°-70°	1532.8	5.1
70°-80°	841.0	2.8
80°-90°	272.8	0.9
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°	15199.8	50.2
0°-40°	20868.1	68.9
0°-60°	27630.4	91.3
0°-90°	30277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22522	22522	22522	22522	22522	
5°	22473	21861	21617	21855	22072	###
15°	21870	21271	21984	21096	20433	6158
25°	20356	20419	16174	12686	9940	9370
35°	18214	16569	6709	2245	1815	11365
45°	15304	10989	1560	1182	962	11835
55°	11740	3028	956	809	721	10448
65°	7214	892	713	671	624	7128
75°	2770	563	536	466	426	2999
85°	390	307	263	241	240	476
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-36SE-N-CLWG-UNV-L735-ED3-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22521.5	22521.5	22521.5	22521.5	22521.5
2.5°	22644.5	22339.4	22105.7	21975.1	22028.3
5°	22473.0	21861.3	21616.9	21855.2	22072.3
7.5°	22324.2	21415.1	21691.3	21712.5	21826.4
10°	22248.3	21372.6	21472.7	21944.8	22574.7
12.5°	22148.2	21471.2	21506.1	22149.7	22504.9
15°	21870.4	21270.9	21984.2	21096.3	20433.0
17.5°	21465.1	20803.4	21783.9	18689.0	17787.4
20°	21075.1	20294.9	20115.8	16647.6	15777.8
22.5°	20823.1	20217.5	17969.6	14833.7	13935.2
25°	20355.6	20419.4	16174.0	12686.0	9940.3
27.5°	19841.1	19944.3	14586.3	8460.4	5694.9
30°	19276.4	19394.8	13092.8	4999.7	3412.1
32.5°	18764.9	18097.1	10456.3	3119.1	2372.4
35°	18214.0	16568.6	6708.8	2244.9	1815.3
37.5°	17520.3	14962.8	4246.9	1775.9	1523.9
40°	16840.3	13520.8	2735.1	1516.3	1329.6
42.5°	16204.3	12332.4	1989.9	1325.1	1200.6
45°	15304.3	10989.1	1560.3	1182.4	962.3
47.5°	14525.6	9413.6	1364.5	1000.2	830.3
50°	13695.4	7197.5	1235.5	889.4	825.7
52.5°	12710.3	4708.3	1141.4	851.5	771.1
55°	11740.4	3028.1	956.2	809.0	721.0
57.5°	10693.1	1920.1	843.9	784.7	752.8
60°	9495.5	1294.7	746.8	743.7	675.4
62.5°	8387.5	1064.0	721.0	713.4	639.0
65°	7214.2	892.5	713.4	670.9	623.8
67.5°	6042.5	765.0	645.1	613.2	572.2
70°	4896.5	699.7	620.8	607.1	520.6
72.5°	3718.7	576.8	551.0	514.5	432.6
75°	2770.0	563.1	535.8	466.0	426.5
77.5°	1874.5	519.1	487.2	417.4	385.5
80°	1167.2	476.6	417.4	365.8	326.3
82.5°	693.6	397.7	343.0	302.0	276.2
85°	390.1	306.6	262.6	241.3	239.8
87.5°	83.5	110.8	88.0	83.5	59.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)