

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-LD5-12SE-N-CL-UNV-L735-ED1-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 (P23768)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-N-CL-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

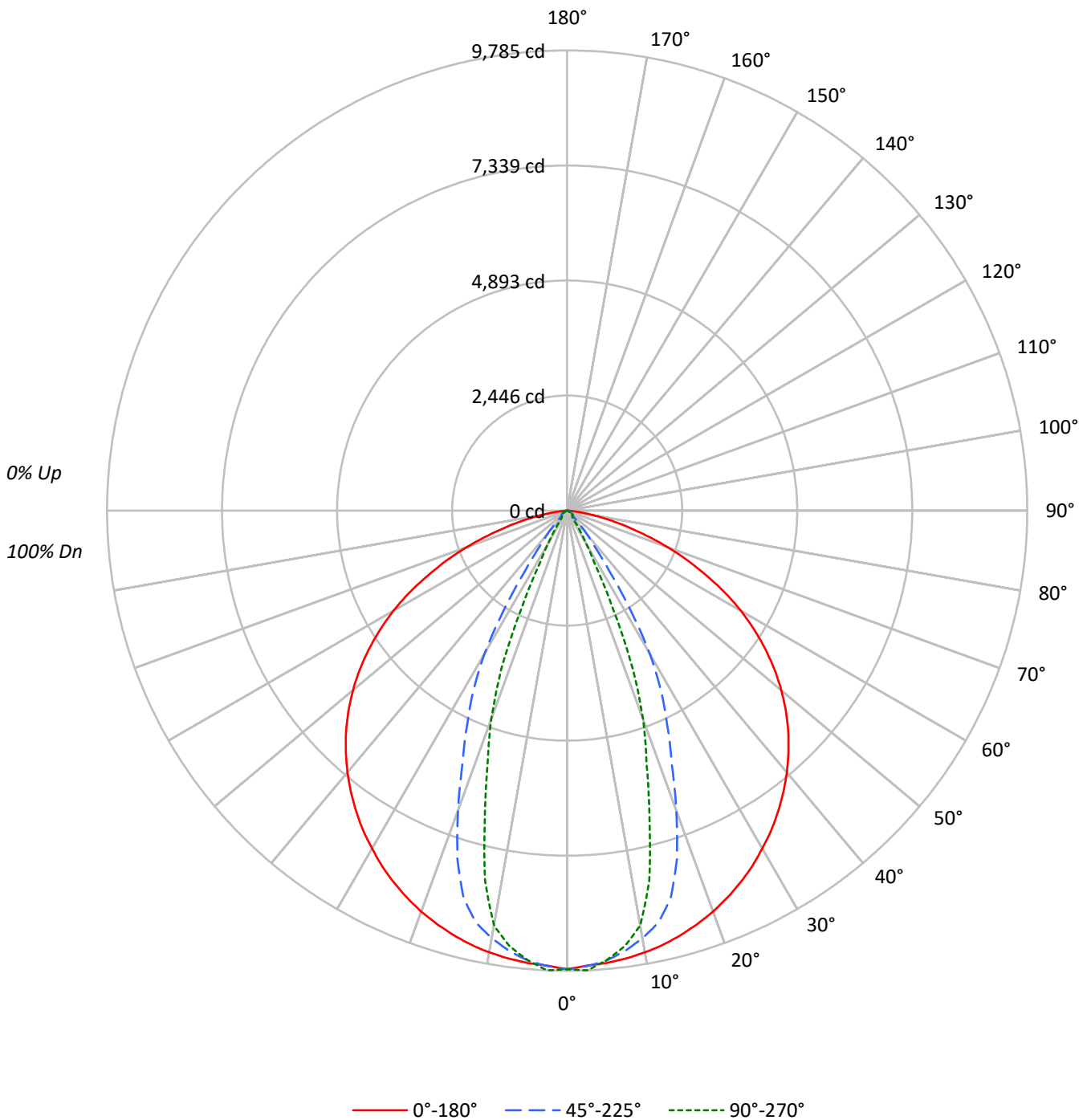
Lumens per Lamp: N/A
Luminaire Lumens: 10430.0 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81					81			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47					47			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13122	13122	13122
5°	13041	12973	12963
10°	13032	12614	12242
15°	13017	11862	9413
20°	12992	9707	6752
25°	12951	7479	3431
30°	12890	5458	1248
35°	12844	2507	434
40°	12765	1138	300
45°	12651	425	304
50°	12450	308	320
55°	12081	324	243
60°	11481	347	215
65°	10411	264	175
70°	8927	190	161
75°	6823	168	153
80°	4269	159	167
85°	1348	185	224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	907.9	8.7
10°-20°	2287.2	21.9
20°-30°	2490.8	23.9
30°-40°	1863.3	17.9
40°-50°	1339.7	12.8
50°-60°	822.8	7.9
60°-70°	473.5	4.5
70°-80°	211.3	2.0
80°-90°	33.5	0.3
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°	5685.9	54.5
0°-40°	7549.2	72.4
0°-60°	9711.7	93.1
0°-90°	10430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9752	9752	9752	9752	9752	
5°	9656	9701	9605	9614	9598	918
15°	9345	9166	8516	7314	6758	2638
25°	8724	8098	5038	3232	2311	4021
35°	7820	5608	1526	449	264	4891
45°	6649	3151	223	165	160	5122
55°	5150	655	138	134	104	4592
65°	3270	72	83	69	55	3237
75°	1312	43	32	33	29	1424
85°	87	8	12	16	14	174
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9752.3	9752.3	9752.3	9752.3	9752.3
2.5°	9684.5	9747.8	9694.4	9742.3	9784.8
5°	9655.5	9700.9	9605.1	9614.1	9598.1
7.5°	9605.6	9616.6	9443.4	9376.5	9344.1
10°	9538.7	9509.3	9232.8	9073.6	8960.3
12.5°	9454.4	9357.1	8970.8	8402.4	8063.6
15°	9345.1	9165.9	8515.7	7313.5	6757.6
17.5°	9214.9	8966.3	7762.1	6095.3	5614.2
20°	9073.6	8745.8	6779.5	5182.6	4715.5
22.5°	8906.9	8463.8	5810.4	4310.2	3669.0
25°	8723.8	8098.0	5037.9	3232.3	2311.1
27.5°	8526.2	7615.4	4322.7	1982.2	1249.6
30°	8296.6	7028.0	3513.3	1112.4	803.5
32.5°	8072.5	6343.4	2509.7	741.1	513.5
35°	7819.5	5608.3	1526.1	448.6	264.5
37.5°	7551.5	4940.0	955.2	244.0	182.7
40°	7267.6	4306.3	647.8	173.2	170.7
42.5°	6964.2	3732.9	405.7	164.7	170.2
45°	6648.8	3151.0	223.1	165.2	159.7
47.5°	6306.4	2519.2	155.7	156.2	155.7
50°	5947.6	1807.0	147.2	154.2	152.7
52.5°	5560.9	1121.9	147.7	150.7	135.2
55°	5150.1	654.7	138.2	133.7	103.8
57.5°	4718.5	408.2	135.2	110.3	93.3
60°	4266.3	215.6	128.8	99.3	79.8
62.5°	3784.8	106.3	103.3	84.8	65.4
65°	3270.2	71.9	82.8	68.9	54.9
67.5°	2773.2	64.9	62.4	56.4	47.9
70°	2269.2	59.4	48.4	49.4	40.9
72.5°	1774.6	53.9	38.9	42.4	34.4
75°	1312.5	43.4	32.4	33.4	29.4
77.5°	913.3	33.9	25.5	28.4	27.4
80°	550.9	21.5	20.5	23.5	21.5
82.5°	267.0	14.0	16.0	18.5	17.0
85°	87.3	8.5	12.0	15.5	14.5
87.5°	11.0	5.0	10.0	13.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)