

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-LD5-12HE-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-LD5-12HE-N-CL-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

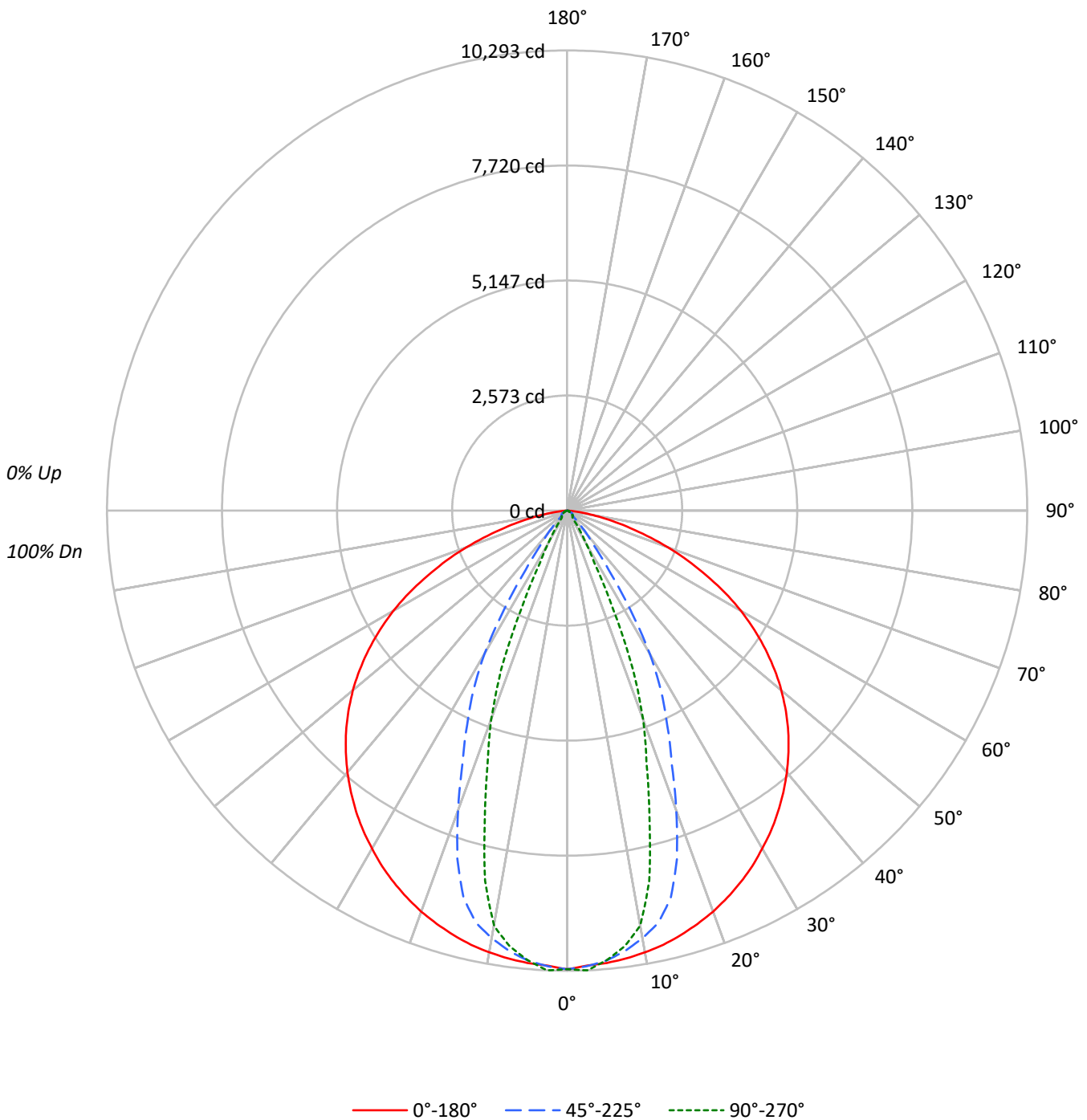
Lumens per Lamp: N/A
Luminaire Lumens: 10972.0 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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°	13804	13804	13804
5°	13719	13647	13637
10°	13709	13270	12878
15°	13694	12478	9902
20°	13667	10212	7103
25°	13624	7868	3609
30°	13560	5742	1313
35°	13511	2637	457
40°	13428	1197	315
45°	13309	447	320
50°	13097	324	336
55°	12709	341	256
60°	12077	364	226
65°	10953	277	184
70°	9391	200	169
75°	7178	177	161
80°	4491	167	175
85°	1419	195	235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	955.1	8.7
10°-20°	2406.0	21.9
20°-30°	2620.3	23.9
30°-40°	1960.1	17.9
40°-50°	1409.3	12.8
50°-60°	865.6	7.9
60°-70°	498.0	4.5
70°-80°	222.3	2.0
80°-90°	35.3	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°	5981.4	54.5
0°-40°	7941.5	72.4
0°-60°	10216.4	93.1
0°-90°	10972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10259	10259	10259	10259	10259	
5°	10157	10205	10104	10114	10097	966
15°	9831	9642	8958	7694	7109	2775
25°	9177	8519	5300	3400	2431	4230
35°	8226	5900	1605	472	278	5146
45°	6994	3315	235	174	168	5388
55°	5418	689	145	141	109	4830
65°	3440	76	87	72	58	3405
75°	1381	46	34	35	31	1498
85°	92	9	13	16	15	183
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10259.1	10259.1	10259.1	10259.1	10259.1
2.5°	10187.7	10254.4	10198.2	10248.6	10293.2
5°	10157.3	10205.0	10104.2	10113.7	10096.9
7.5°	10104.8	10116.3	9934.1	9863.8	9829.7
10°	10034.4	10003.4	9712.6	9545.1	9426.0
12.5°	9945.7	9843.3	9437.0	8839.0	8482.6
15°	9830.7	9642.3	8958.2	7693.5	7108.7
17.5°	9693.7	9432.3	8165.5	6412.1	5906.0
20°	9545.1	9200.2	7131.8	5451.9	4960.5
22.5°	9369.8	8903.6	6112.3	4534.2	3859.6
25°	9177.1	8518.8	5299.6	3400.3	2431.2
27.5°	8969.2	8011.2	4547.4	2085.2	1314.5
30°	8727.8	7393.3	3695.8	1170.2	845.2
32.5°	8492.0	6673.0	2640.1	779.6	540.2
35°	8225.9	5899.7	1605.4	472.0	278.2
37.5°	7944.0	5196.8	1004.8	256.7	192.1
40°	7645.2	4530.0	681.4	182.2	179.5
42.5°	7326.1	3926.8	426.8	173.2	179.0
45°	6994.3	3314.7	234.7	173.8	168.0
47.5°	6634.1	2650.1	163.8	164.3	163.8
50°	6256.7	1900.9	154.9	162.2	160.6
52.5°	5849.8	1180.1	155.4	158.5	142.3
55°	5417.8	688.8	145.4	140.7	109.2
57.5°	4963.7	429.4	142.3	116.0	98.2
60°	4488.0	226.8	135.4	104.5	84.0
62.5°	3981.4	111.8	108.7	89.2	68.8
65°	3440.2	75.6	87.1	72.4	57.7
67.5°	2917.3	68.2	65.6	59.3	50.4
70°	2387.1	62.5	50.9	52.0	43.0
72.5°	1866.8	56.7	40.9	44.6	36.2
75°	1380.7	45.7	34.1	35.2	31.0
77.5°	960.7	35.7	26.8	29.9	28.9
80°	579.6	22.6	21.5	24.7	22.6
82.5°	280.9	14.7	16.8	19.4	17.8
85°	91.9	8.9	12.6	16.3	15.2
87.5°	11.5	5.2	10.5	14.2	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)