

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-W-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 (P23762)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-W-CL-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

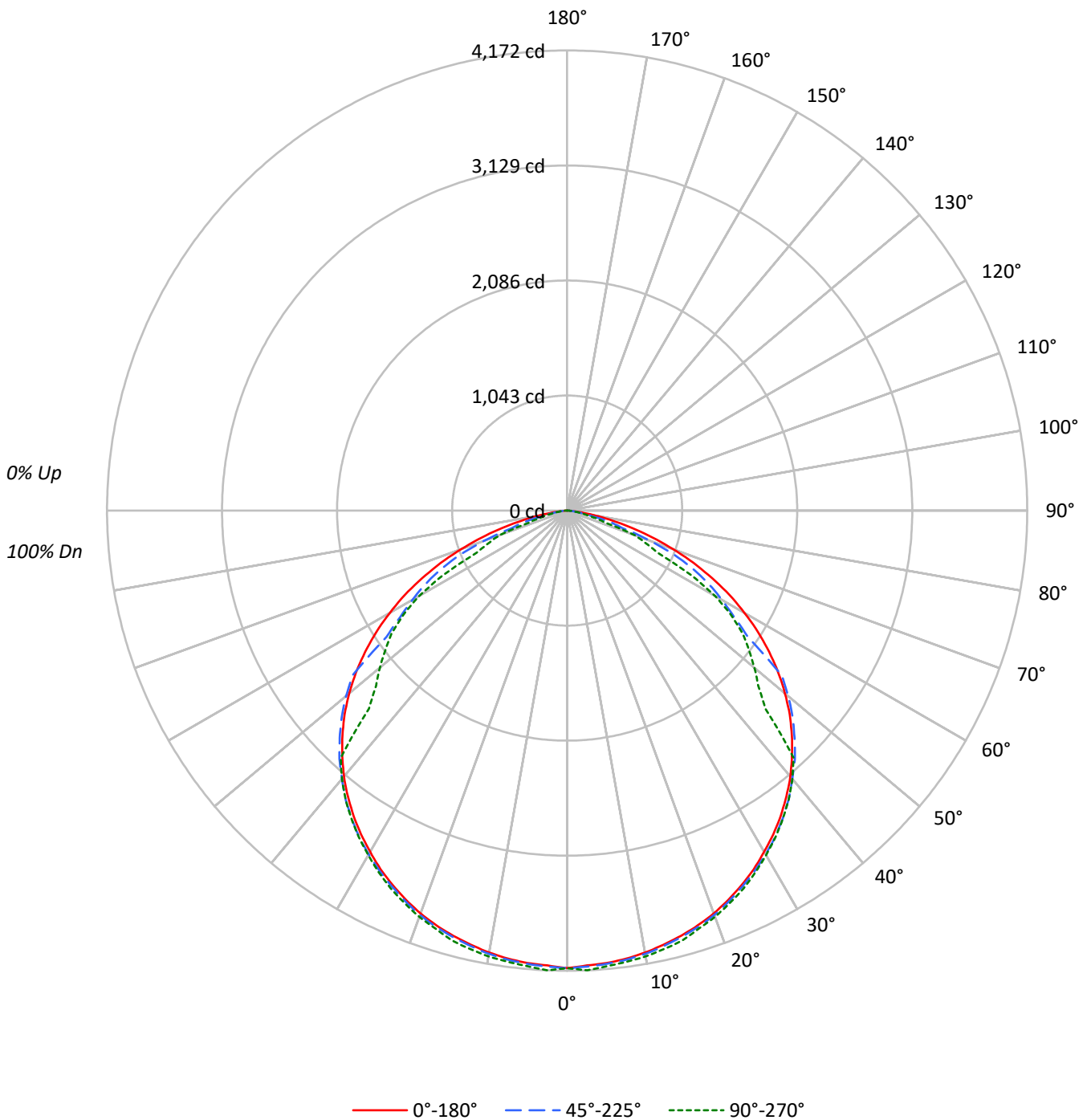
Lumens per Lamp: N/A
Luminaire Lumens: 11213.0 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38		49	43	38		48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	31		41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5581	5581	5581
5°	5560	5573	5600
10°	5560	5576	5608
15°	5559	5576	5621
20°	5566	5587	5613
25°	5560	5581	5615
30°	5549	5590	5603
35°	5547	5597	5602
40°	5530	5578	5578
45°	5482	5548	4834
50°	5398	5479	4639
55°	5244	4690	4556
60°	4998	4360	4162
65°	4622	4047	2883
70°	4025	3149	2569
75°	3179	2113	1381
80°	2046	1010	861
85°	841	616	678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.4	3.5
10°-20°	1134.0	10.1
20°-30°	1738.6	15.5
30°-40°	2131.0	19.0
40°-50°	2190.8	19.5
50°-60°	1869.8	16.7
60°-70°	1236.1	11.0
70°-80°	458.0	4.1
80°-90°	61.2	0.5
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°	3266.1	29.1
0°-40°	5397.1	48.1
0°-60°	9457.7	84.3
0°-90°	11213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11213.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4148	4148	4148	4148	4148	
5°	4117	4146	4126	4142	4146	392
15°	3991	4015	4003	4034	4036	1127
25°	3745	3765	3759	3793	3782	1727
35°	3377	3400	3408	3429	3410	2112
45°	2881	2910	2916	2911	2541	2220
55°	2236	2277	1999	1941	1942	1995
65°	1452	1464	1271	1045	906	1432
75°	612	536	406	273	266	656
85°	54	39	40	43	44	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4147.6	4147.6	4147.6	4147.6	4147.6
2.5°	4127.4	4153.2	4138.1	4157.2	4171.9
5°	4116.8	4145.6	4125.9	4142.1	4146.1
7.5°	4098.7	4125.4	4107.2	4128.5	4125.4
10°	4069.4	4093.6	4081.0	4103.2	4104.7
12.5°	4032.0	4056.2	4044.6	4071.9	4071.4
15°	3991.1	4015.3	4003.2	4033.5	4035.5
17.5°	3943.1	3965.3	3956.2	3984.0	3972.9
20°	3887.6	3906.8	3902.2	3928.5	3920.4
22.5°	3819.4	3839.1	3834.5	3864.8	3852.7
25°	3745.2	3764.8	3759.3	3793.1	3782.0
27.5°	3664.9	3683.5	3683.0	3714.9	3697.7
30°	3571.9	3596.7	3598.2	3626.5	3606.3
32.5°	3480.0	3503.3	3509.8	3530.5	3513.4
35°	3377.0	3400.2	3407.8	3429.0	3410.3
37.5°	3265.9	3285.6	3299.2	3314.9	3300.2
40°	3148.2	3165.9	3176.0	3195.2	3176.0
42.5°	3016.9	3042.2	3056.3	3070.0	3038.6
45°	2881.1	2909.9	2915.9	2911.4	2540.7
47.5°	2737.2	2768.5	2772.0	2417.5	2349.3
50°	2578.6	2618.0	2617.5	2234.2	2216.0
52.5°	2413.4	2451.3	2449.8	2090.7	2078.6
55°	2235.7	2276.6	1999.3	1941.3	1942.3
57.5°	2054.4	2083.7	1793.8	1796.3	1763.0
60°	1857.4	1885.2	1620.1	1604.4	1546.8
62.5°	1660.0	1671.6	1451.9	1375.6	1266.1
65°	1451.9	1464.0	1271.1	1045.4	905.5
67.5°	1238.3	1250.4	1055.0	777.7	767.1
70°	1023.2	924.2	800.4	647.9	653.0
72.5°	811.0	710.0	523.2	502.0	362.6
75°	611.6	535.8	406.5	273.2	265.6
77.5°	425.7	369.2	217.7	186.3	174.2
80°	264.1	185.3	130.3	115.6	111.1
82.5°	133.8	106.6	70.7	70.7	70.7
85°	54.5	38.9	39.9	43.4	43.9
87.5°	11.6	15.7	19.2	19.7	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)