

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-CLI-UNV-L835-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 (P23766)
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-CLI-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

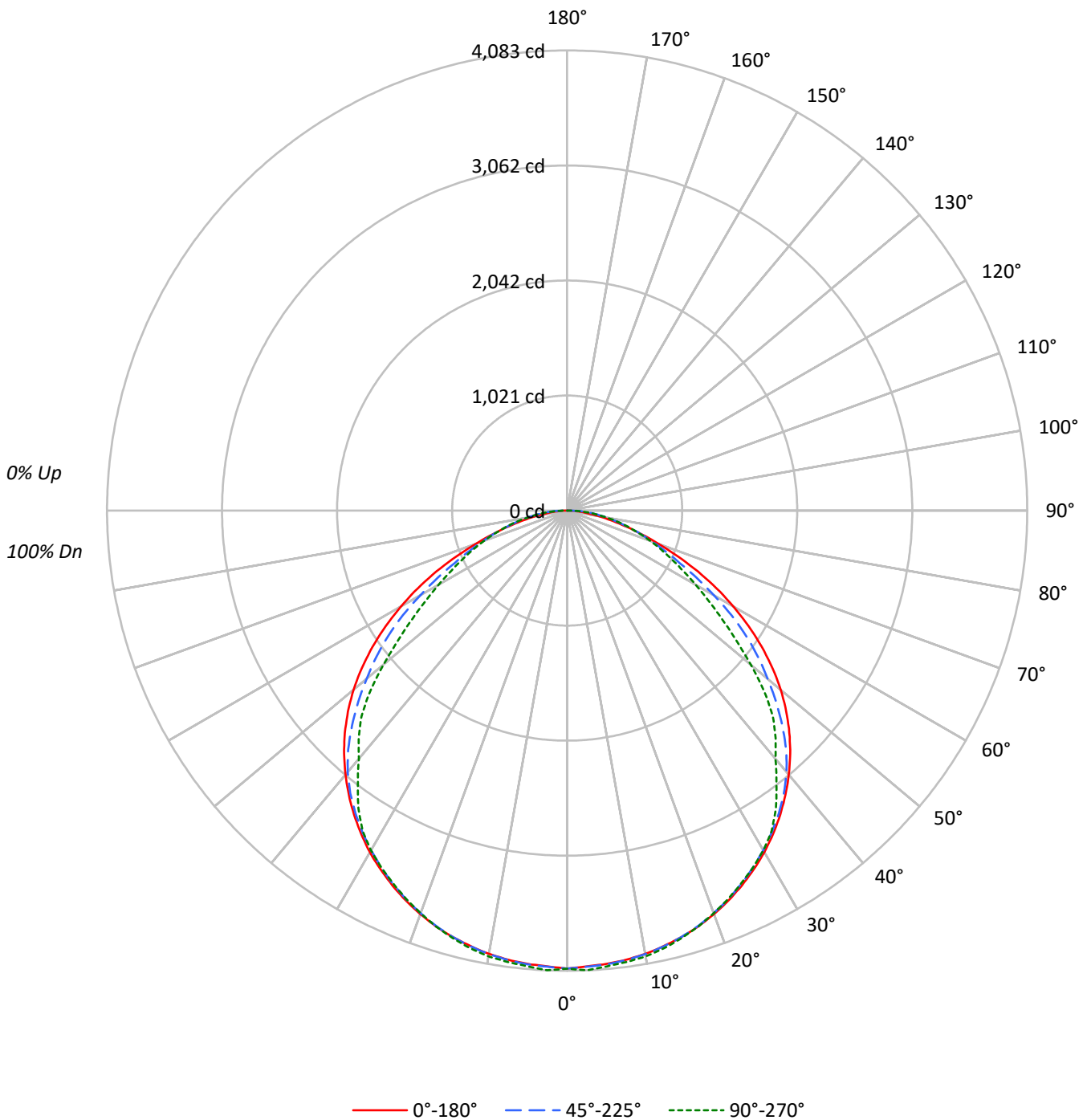
Lumens per Lamp: N/A
Luminaire Lumens: 10919.0 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5468	5468	5468
5°	5454	5457	5482
10°	5457	5459	5488
15°	5457	5457	5469
20°	5456	5443	5445
25°	5448	5427	5421
30°	5439	5406	5409
35°	5413	5380	5303
40°	5375	5320	5052
45°	5307	5137	4912
50°	5179	4863	4448
55°	4943	4548	3934
60°	4587	4058	3548
65°	4077	3514	3262
70°	3384	3140	3075
75°	2737	2874	2909
80°	2173	2748	2737
85°	1703	2953	2817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.4	3.5
10°-20°	1108.6	10.2
20°-30°	1690.5	15.5
30°-40°	2045.2	18.7
40°-50°	2071.6	19.0
50°-60°	1712.2	15.7
60°-70°	1130.9	10.4
70°-80°	589.7	5.4
80°-90°	184.9	1.7
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°	3184.5	29.2
0°-40°	5229.7	47.9
0°-60°	9013.5	82.5
0°-90°	10919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4064	4064	4064	4064	4064	
5°	4038	4062	4041	4058	4059	384
15°	3918	3938	3917	3930	3926	1106
25°	3669	3684	3656	3665	3651	1692
35°	3296	3300	3275	3271	3229	2061
45°	2789	2782	2700	2616	2581	2147
55°	2107	2076	1939	1750	1677	1878
65°	1281	1244	1104	1032	1025	1265
75°	526	536	553	560	560	573
85°	110	142	191	190	182	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4064.1	4064.1	4064.1	4064.1	4064.1
2.5°	4047.0	4070.9	4050.9	4068.5	4082.7
5°	4037.8	4062.2	4040.7	4058.3	4058.7
7.5°	4019.7	4044.1	4022.2	4039.7	4039.2
10°	3993.9	4016.8	3995.8	4016.8	4016.8
12.5°	3958.7	3981.2	3960.7	3980.2	3977.3
15°	3917.7	3937.8	3917.3	3929.5	3926.5
17.5°	3869.4	3887.5	3864.6	3874.8	3869.0
20°	3810.4	3827.0	3801.6	3814.8	3802.6
22.5°	3744.1	3759.7	3733.8	3743.6	3729.9
25°	3669.4	3684.0	3655.8	3665.0	3651.4
27.5°	3588.9	3602.1	3570.4	3581.6	3570.9
30°	3500.6	3506.9	3479.6	3494.3	3481.6
32.5°	3402.0	3406.0	3382.0	3395.2	3373.8
35°	3295.7	3300.1	3275.2	3270.8	3228.8
37.5°	3182.0	3184.0	3160.5	3121.0	3051.7
40°	3060.0	3059.1	3028.8	2937.6	2876.1
42.5°	2929.8	2929.3	2876.1	2772.2	2737.1
45°	2788.8	2781.5	2699.5	2615.6	2581.4
47.5°	2637.5	2629.7	2515.1	2448.2	2370.7
50°	2474.1	2460.4	2323.3	2232.1	2125.2
52.5°	2298.0	2277.0	2137.4	1990.1	1889.1
55°	2107.2	2076.0	1938.9	1750.5	1676.9
57.5°	1908.6	1862.3	1729.1	1545.6	1485.6
60°	1704.7	1653.0	1508.1	1357.3	1318.3
62.5°	1494.9	1443.7	1295.8	1182.2	1160.7
65°	1280.7	1243.6	1103.6	1031.9	1024.6
67.5°	1061.2	1048.0	941.1	904.5	901.6
70°	860.1	857.7	798.2	779.6	781.6
72.5°	687.4	684.5	675.7	666.5	666.9
75°	526.4	535.7	552.8	560.1	559.6
77.5°	392.8	411.8	447.9	462.5	460.1
80°	280.5	308.8	354.7	368.4	353.2
82.5°	186.9	216.6	270.8	272.7	260.5
85°	110.3	142.0	191.3	189.8	182.5
87.5°	54.6	85.4	114.7	109.8	104.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)