

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

Luminaire Equipment: Sample No. Condition Description

Summary

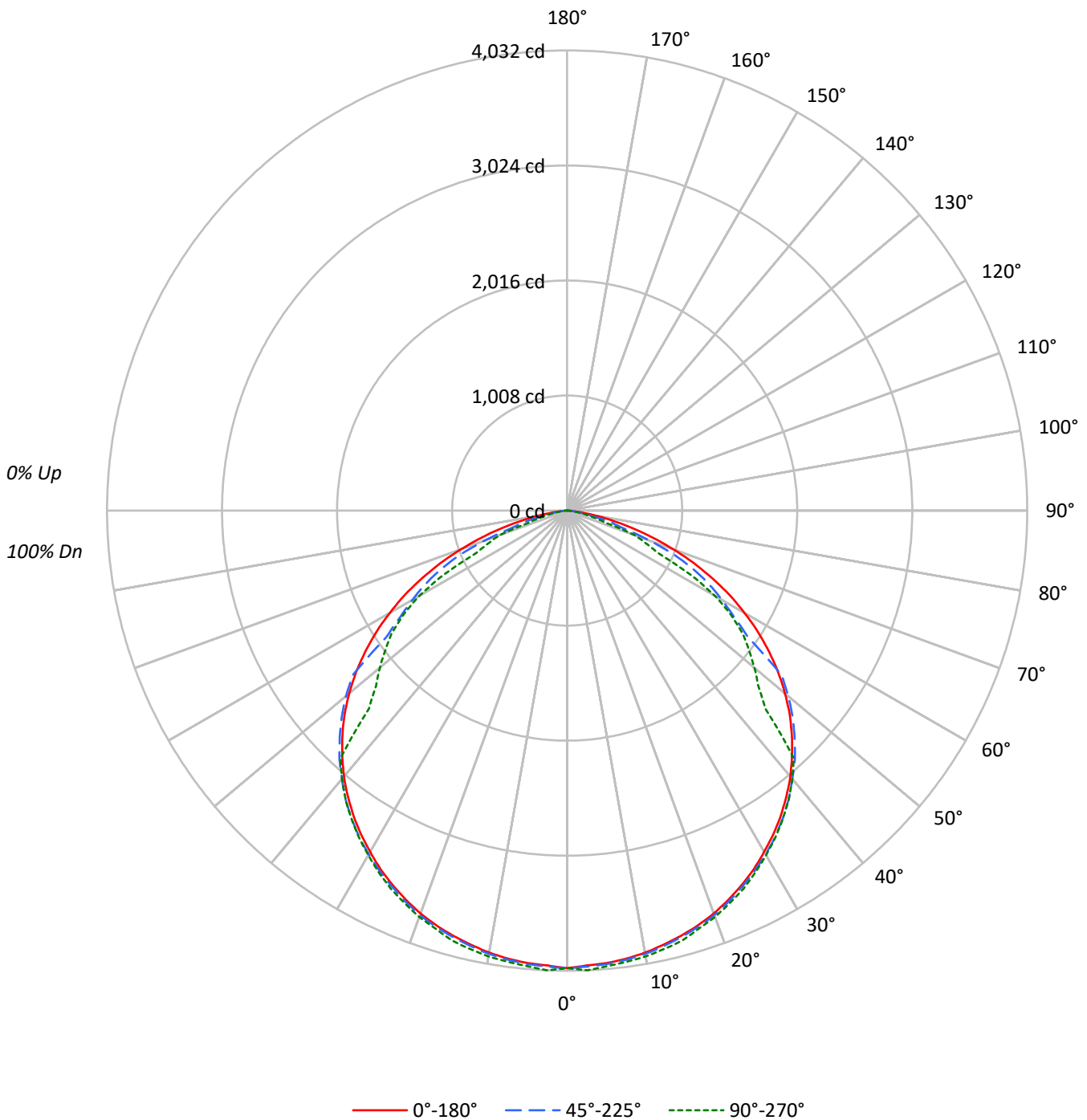
Lumens per Lamp: N/A
Luminaire Lumens: 10837.0 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	5394	5394	5394
5°	5374	5386	5412
10°	5373	5389	5420
15°	5373	5389	5433
20°	5380	5400	5425
25°	5374	5394	5426
30°	5363	5403	5415
35°	5361	5410	5414
40°	5344	5391	5391
45°	5298	5362	4672
50°	5216	5295	4483
55°	5069	4533	4403
60°	4831	4213	4023
65°	4467	3911	2786
70°	3890	3043	2483
75°	3073	2043	1334
80°	1978	976	832
85°	814	596	656



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.2	3.5
10°-20°	1096.0	10.1
20°-30°	1680.3	15.5
30°-40°	2059.5	19.0
40°-50°	2117.3	19.5
50°-60°	1807.0	16.7
60°-70°	1194.7	11.0
70°-80°	442.6	4.1
80°-90°	59.2	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°	3156.6	29.1
0°-40°	5216.1	48.1
0°-60°	9140.5	84.3
0°-90°	10837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10837.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4009	4009	4009	4009	4009	
5°	3979	4007	3988	4003	4007	378
15°	3857	3881	3869	3898	3900	1090
25°	3620	3639	3633	3666	3655	1669
35°	3264	3286	3294	3314	3296	2041
45°	2784	2812	2818	2814	2456	2146
55°	2161	2200	1932	1876	1877	1928
65°	1403	1415	1228	1010	875	1384
75°	591	518	393	264	257	634
85°	53	38	39	42	42	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4008.6	4008.6	4008.6	4008.6	4008.6
2.5°	3989.0	4013.9	3999.3	4017.8	4032.0
5°	3978.8	4006.6	3987.6	4003.2	4007.1
7.5°	3961.2	3987.1	3969.5	3990.0	3987.1
10°	3932.9	3956.3	3944.1	3965.6	3967.1
12.5°	3896.8	3920.2	3909.0	3935.4	3934.9
15°	3857.3	3880.7	3869.0	3898.3	3900.2
17.5°	3810.9	3832.4	3823.6	3850.4	3839.7
20°	3757.2	3775.8	3771.4	3796.7	3788.9
22.5°	3691.3	3710.4	3706.0	3735.2	3723.5
25°	3619.6	3638.6	3633.2	3665.9	3655.2
27.5°	3542.0	3560.0	3559.5	3590.3	3573.7
30°	3452.2	3476.1	3477.5	3504.9	3485.3
32.5°	3363.3	3385.8	3392.1	3412.1	3395.5
35°	3263.8	3286.2	3293.5	3314.0	3296.0
37.5°	3156.4	3175.4	3188.6	3203.7	3189.6
40°	3042.7	3059.7	3069.5	3088.1	3069.5
42.5°	2915.8	2940.2	2953.8	2967.0	2936.8
45°	2784.5	2812.3	2818.1	2813.8	2455.5
47.5°	2645.4	2675.6	2679.0	2336.4	2270.5
50°	2492.1	2530.2	2529.7	2159.2	2141.7
52.5°	2332.5	2369.1	2367.7	2020.6	2008.9
55°	2160.7	2200.2	1932.3	1876.2	1877.1
57.5°	1985.5	2013.8	1733.6	1736.1	1703.9
60°	1795.1	1822.0	1565.7	1550.6	1495.0
62.5°	1604.3	1615.5	1403.2	1329.5	1223.6
65°	1403.2	1414.9	1228.5	1010.3	875.1
67.5°	1196.8	1208.5	1019.6	751.6	741.4
70°	988.8	893.2	773.6	626.2	631.1
72.5°	783.8	686.2	505.6	485.1	350.4
75°	591.1	517.8	392.9	264.0	256.7
77.5°	411.4	356.8	210.4	180.1	168.4
80°	255.3	179.1	125.9	111.8	107.4
82.5°	129.3	103.0	68.3	68.3	68.3
85°	52.7	37.6	38.6	42.0	42.5
87.5°	11.2	15.1	18.5	19.0	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)