

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-WG-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-W-WG-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

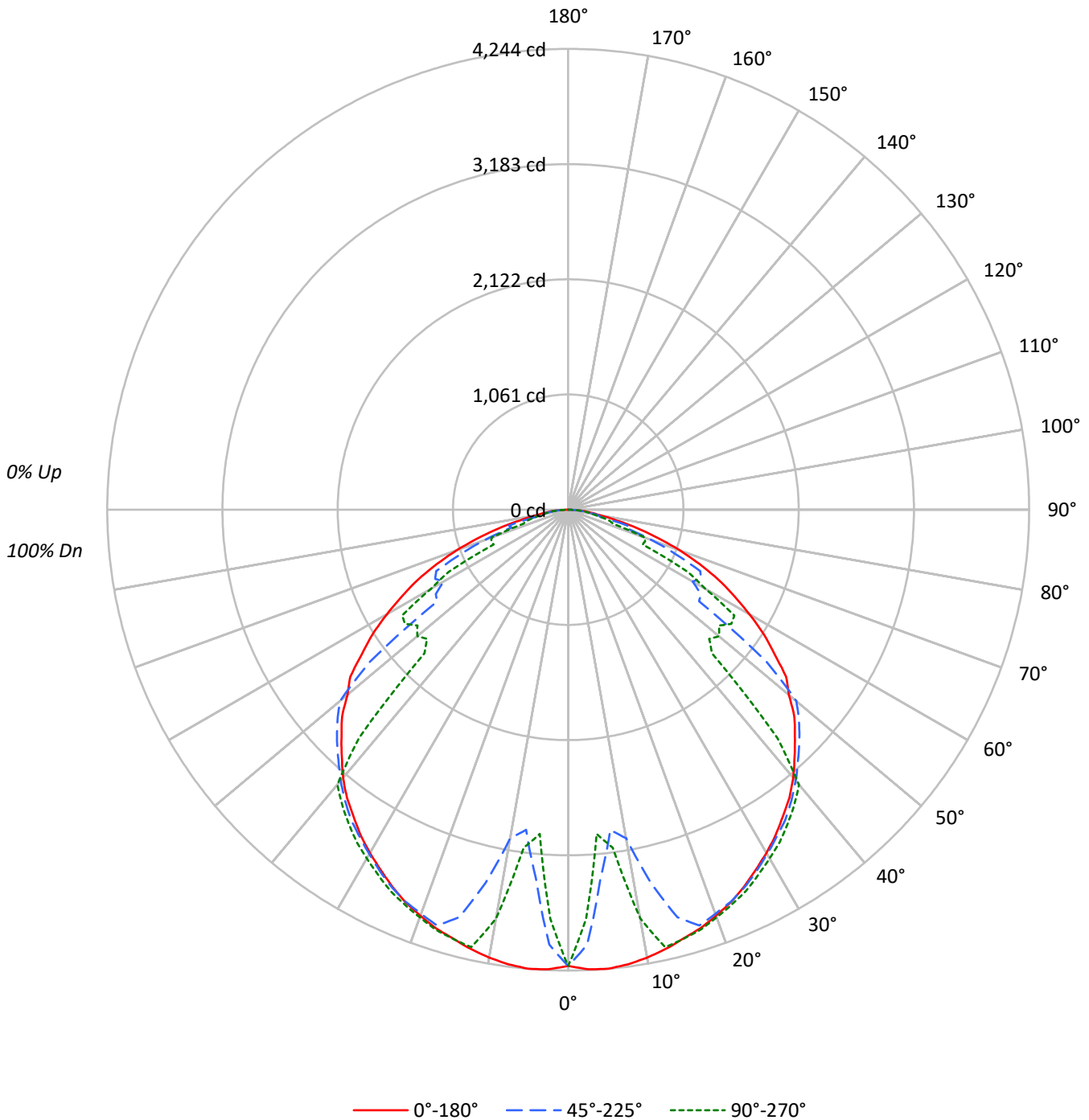
Lumens per Lamp: N/A
Luminaire Lumens: 11131.0 lumens
Efficiency: N/A
Efficacy: 153.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5653	5653	5653
5°	5732	4605	4050
10°	5722	4199	5223
15°	5697	5412	5701
20°	5697	5671	5721
25°	5686	5699	5751
30°	5670	5689	5762
35°	5661	5724	5791
40°	5662	5723	5805
45°	5617	5727	3559
50°	5554	5739	3793
55°	5437	3451	4299
60°	5186	3557	3937
65°	4859	4271	2409
70°	4291	3235	2953
75°	3419	2941	2048
80°	2356	2125	1760
85°	2257	1962	1862



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.0	3.0
10°-20°	1052.6	9.5
20°-30°	1731.7	15.6
30°-40°	2177.4	19.6
40°-50°	2135.5	19.2
50°-60°	1769.4	15.9
60°-70°	1248.0	11.2
70°-80°	544.5	4.9
80°-90°	136.0	1.2
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°	3120.3	28.0
0°-40°	5297.7	47.6
0°-60°	9202.5	82.7
0°-90°	11131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4202	4202	4202	4202	4202	
5°	4244	3950	3409	3091	2998	403
15°	4090	2840	3886	4106	4093	1156
25°	3830	3505	3839	3864	3874	1766
35°	3446	3444	3485	3508	3525	2159
45°	2952	2961	3010	2666	1870	2279
55°	2318	2393	1471	1672	1833	2074
65°	1526	1616	1341	1032	757	1501
75°	658	645	566	370	394	705
85°	146	130	127	122	121	152
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4201.6	4201.6	4201.6	4201.6	4201.6
2.5°	4236.3	4148.3	4008.7	3832.8	3770.5
5°	4243.8	3949.9	3409.3	3091.3	2998.3
7.5°	4222.2	3589.7	2972.2	3039.0	3137.5
10°	4188.0	3273.2	3073.7	3616.3	3822.8
12.5°	4144.3	2991.8	3521.3	4085.0	4126.2
15°	4089.6	2840.1	3885.6	4105.6	4093.1
17.5°	4043.3	2929.0	4016.2	4064.4	4055.4
20°	3978.5	3106.4	3960.4	3999.1	3995.6
22.5°	3913.2	3316.4	3907.7	3935.3	3935.3
25°	3830.3	3504.8	3838.9	3864.5	3874.0
27.5°	3739.4	3613.3	3752.9	3774.0	3791.1
30°	3649.5	3628.9	3661.5	3688.6	3708.7
32.5°	3554.5	3546.5	3572.1	3600.7	3626.3
35°	3446.5	3444.5	3484.7	3507.8	3525.4
37.5°	3345.0	3338.0	3375.1	3407.3	3420.9
40°	3223.4	3223.4	3258.6	3291.2	3305.3
42.5°	3084.8	3104.3	3131.5	3165.1	2850.6
45°	2952.1	2961.2	3009.9	2665.7	1870.4
47.5°	2824.5	2836.1	2882.3	1713.7	1760.4
50°	2653.2	2705.4	2741.6	1708.7	1812.2
52.5°	2528.1	2550.7	2301.5	1691.6	1749.9
55°	2317.6	2393.4	1471.0	1672.5	1832.8
57.5°	2137.7	2193.0	1446.4	1713.7	1813.2
60°	1927.2	2011.6	1321.8	1653.4	1463.0
62.5°	1725.2	1805.6	1380.1	1301.2	1238.9
65°	1526.3	1616.2	1341.4	1031.9	756.6
67.5°	1308.3	1224.4	1070.1	727.0	765.2
70°	1090.7	855.1	822.4	812.9	750.6
72.5°	867.1	624.0	546.1	609.9	436.6
75°	657.6	644.6	565.7	369.8	393.9
77.5°	456.2	465.2	302.9	360.7	299.4
80°	304.0	263.3	274.3	230.1	227.1
82.5°	210.5	215.0	180.4	174.8	177.3
85°	146.2	130.1	127.1	121.6	120.6
87.5°	48.7	56.8	52.8	47.7	50.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)