

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-LD5-12SE-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-LD5-12SE-W-CL-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

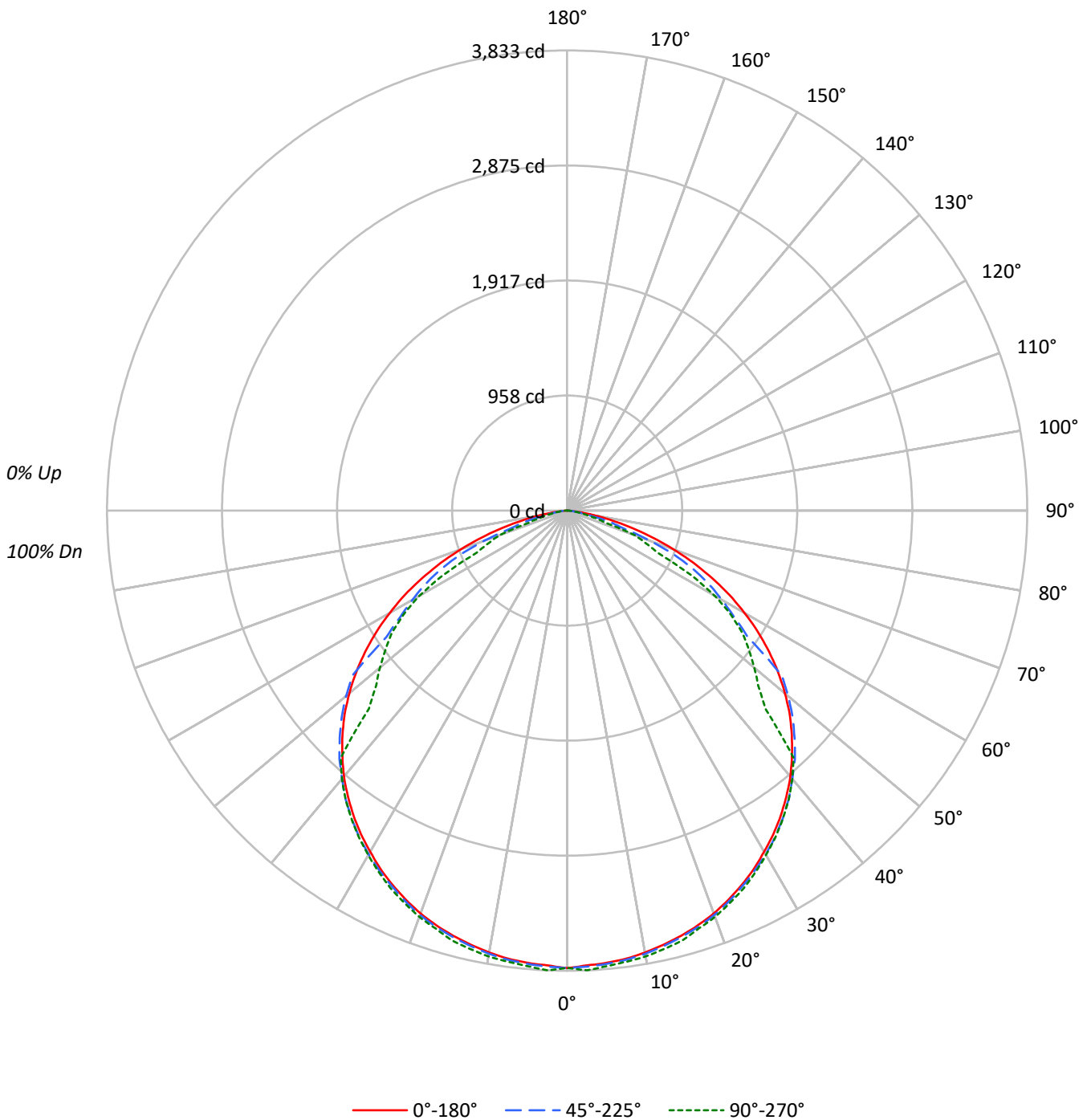
Lumens per Lamp: N/A
Luminaire Lumens: 10301.0 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
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°	5127	5127	5127
5°	5108	5119	5144
10°	5108	5122	5152
15°	5107	5123	5164
20°	5114	5133	5157
25°	5108	5127	5158
30°	5098	5136	5147
35°	5096	5142	5146
40°	5080	5125	5125
45°	5036	5097	4441
50°	4959	5033	4261
55°	4818	4309	4186
60°	4592	4005	3824
65°	4246	3718	2648
70°	3698	2893	2360
75°	2921	1942	1268
80°	1880	927	791
85°	773	567	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.4	3.5
10°-20°	1041.8	10.1
20°-30°	1597.2	15.5
30°-40°	1957.7	19.0
40°-50°	2012.6	19.5
50°-60°	1717.7	16.7
60°-70°	1135.6	11.0
70°-80°	420.7	4.1
80°-90°	56.3	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°	3000.5	29.1
0°-40°	4958.1	48.1
0°-60°	8688.4	84.3
0°-90°	10301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3810	3810	3810	3810	3810	
5°	3782	3808	3790	3805	3809	360
15°	3666	3689	3678	3706	3707	1036
25°	3440	3459	3454	3485	3474	1586
35°	3102	3124	3131	3150	3133	1940
45°	2647	2673	2679	2675	2334	2040
55°	2054	2091	1837	1783	1784	1833
65°	1334	1345	1168	960	832	1315
75°	562	492	374	251	244	603
85°	50	36	37	40	40	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3810.3	3810.3	3810.3	3810.3	3810.3
2.5°	3791.7	3815.4	3801.5	3819.1	3832.6
5°	3782.0	3808.4	3790.4	3805.2	3808.9
7.5°	3765.3	3789.9	3773.2	3792.7	3789.9
10°	3738.4	3760.7	3749.1	3769.5	3770.9
12.5°	3704.1	3726.3	3715.7	3740.7	3740.2
15°	3666.5	3688.8	3677.6	3705.5	3707.3
17.5°	3622.4	3642.8	3634.5	3660.0	3649.8
20°	3571.4	3589.0	3584.8	3609.0	3601.5
22.5°	3508.7	3526.8	3522.7	3550.5	3539.4
25°	3440.5	3458.6	3453.5	3484.6	3474.4
27.5°	3366.8	3383.9	3383.5	3412.7	3396.9
30°	3281.4	3304.1	3305.5	3331.5	3313.0
32.5°	3197.0	3218.3	3224.4	3243.4	3227.6
35°	3102.3	3123.7	3130.6	3150.1	3133.0
37.5°	3000.3	3018.4	3030.9	3045.3	3031.8
40°	2892.2	2908.4	2917.7	2935.3	2917.7
42.5°	2771.5	2794.7	2807.7	2820.3	2791.5
45°	2646.8	2673.2	2678.8	2674.6	2334.1
47.5°	2514.5	2543.3	2546.5	2220.9	2158.2
50°	2368.9	2405.0	2404.6	2052.5	2035.7
52.5°	2217.1	2251.9	2250.6	1920.7	1909.6
55°	2053.8	2091.4	1836.7	1783.4	1784.3
57.5°	1887.3	1914.2	1647.9	1650.2	1619.6
60°	1706.4	1731.9	1488.3	1473.9	1421.0
62.5°	1525.0	1535.6	1333.8	1263.8	1163.1
65°	1333.8	1344.9	1167.7	960.3	831.8
67.5°	1137.6	1148.7	969.2	714.5	704.7
70°	939.9	849.0	735.3	595.2	599.9
72.5°	745.1	652.3	480.6	461.2	333.1
75°	561.8	492.2	373.5	251.0	244.0
77.5°	391.1	339.1	200.0	171.2	160.1
80°	242.6	170.3	119.7	106.2	102.1
82.5°	122.9	97.9	65.0	65.0	65.0
85°	50.1	35.7	36.7	39.9	40.4
87.5°	10.7	14.4	17.6	18.1	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)