

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

Luminaire Equipment: Sample No. Condition Description

Summary

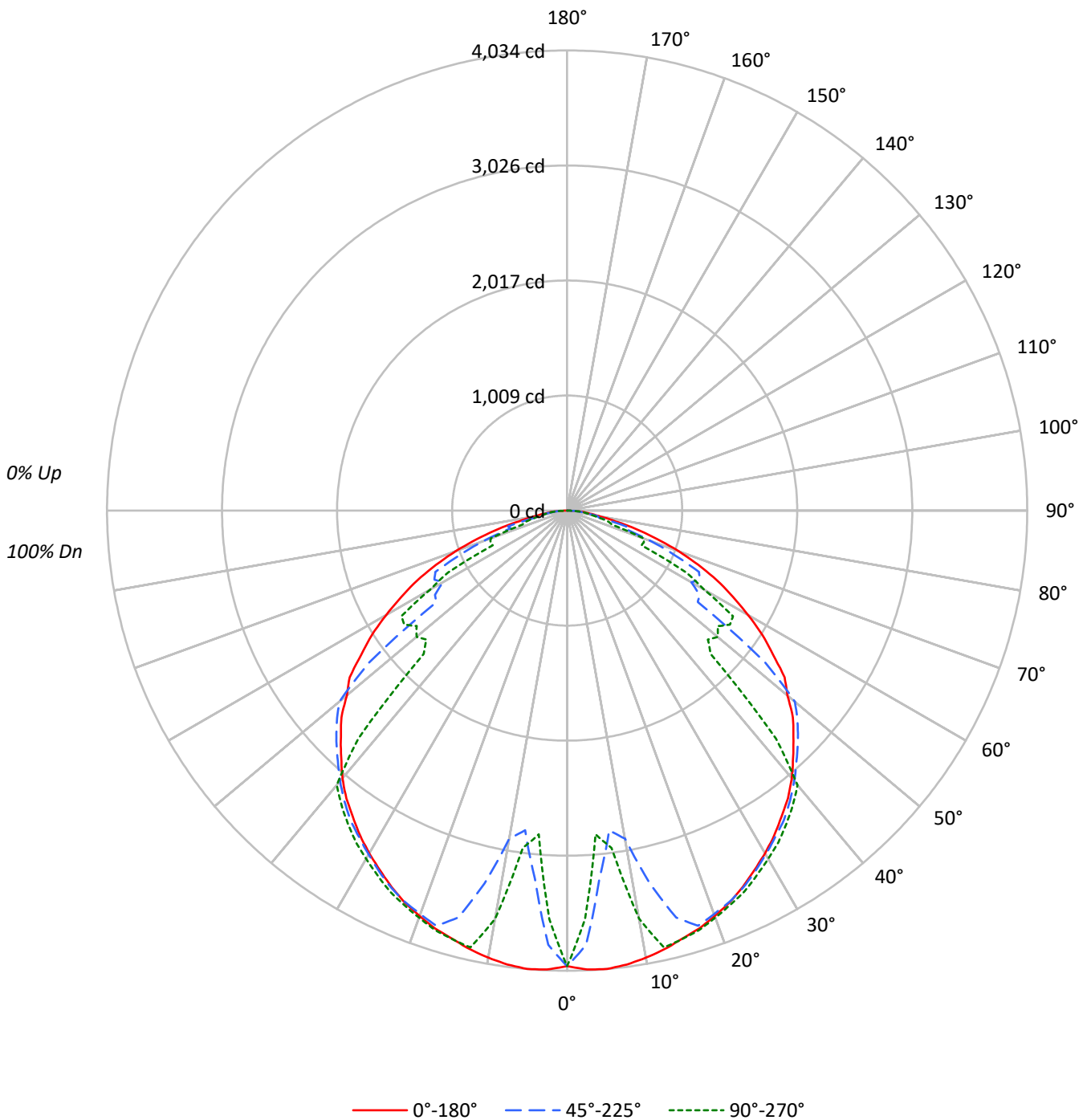
Lumens per Lamp: N/A
Luminaire Lumens: 10580.0 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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





TEST NUMBER: P#

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	5373	5373	5373
5°	5448	4377	3849
10°	5439	3991	4964
15°	5415	5144	5419
20°	5415	5390	5438
25°	5405	5417	5467
30°	5389	5407	5477
35°	5381	5440	5504
40°	5381	5440	5518
45°	5339	5444	3383
50°	5279	5455	3606
55°	5168	3280	4086
60°	4929	3381	3742
65°	4619	4059	2290
70°	4078	3075	2806
75°	3250	2795	1946
80°	2239	2020	1672
85°	2146	1865	1769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.3	3.0
10°-20°	1000.5	9.5
20°-30°	1646.0	15.6
30°-40°	2069.6	19.6
40°-50°	2029.8	19.2
50°-60°	1681.8	15.9
60°-70°	1186.2	11.2
70°-80°	517.5	4.9
80°-90°	129.3	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°	2965.8	28.0
0°-40°	5035.4	47.6
0°-60°	8747.0	82.7
0°-90°	10580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10580.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3994	3994	3994	3994	3994	
5°	4034	3754	3240	2938	2850	383
15°	3887	2700	3693	3902	3890	1099
25°	3641	3331	3649	3673	3682	1678
35°	3276	3274	3312	3334	3351	2052
45°	2806	2815	2861	2534	1778	2166
55°	2203	2275	1398	1590	1742	1971
65°	1451	1536	1275	981	719	1426
75°	625	613	538	352	374	670
85°	139	124	121	116	115	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3993.6	3993.6	3993.6	3993.6	3993.6
2.5°	4026.6	3943.0	3810.2	3643.1	3583.9
5°	4033.7	3754.4	3240.5	2938.3	2849.9
7.5°	4013.2	3412.0	2825.1	2888.6	2982.2
10°	3980.7	3111.1	2921.5	3437.3	3633.5
12.5°	3939.2	2843.7	3347.0	3882.8	3922.0
15°	3887.1	2699.5	3693.2	3902.4	3890.5
17.5°	3843.2	2784.0	3817.4	3863.2	3854.6
20°	3781.6	2952.6	3764.4	3801.2	3797.8
22.5°	3719.5	3152.2	3714.2	3740.5	3740.5
25°	3640.7	3331.3	3648.8	3673.2	3682.3
27.5°	3554.3	3434.4	3567.2	3587.2	3603.5
30°	3468.8	3449.2	3480.3	3506.0	3525.1
32.5°	3378.5	3370.9	3395.3	3422.5	3446.8
35°	3275.9	3274.0	3312.2	3334.1	3350.8
37.5°	3179.4	3172.7	3208.1	3238.6	3251.5
40°	3063.8	3063.8	3097.3	3128.3	3141.7
42.5°	2932.1	2950.7	2976.5	3008.5	2709.5
45°	2806.0	2814.6	2860.9	2533.8	1777.9
47.5°	2684.7	2695.7	2739.6	1628.9	1673.3
50°	2521.9	2571.5	2605.9	1624.1	1722.5
52.5°	2402.9	2424.4	2187.6	1607.9	1663.2
55°	2202.9	2275.0	1398.2	1589.7	1742.0
57.5°	2031.9	2084.4	1374.8	1628.9	1723.4
60°	1831.8	1912.0	1256.4	1571.6	1390.6
62.5°	1639.8	1716.3	1311.8	1236.8	1177.6
65°	1450.7	1536.2	1275.0	980.9	719.2
67.5°	1243.5	1163.7	1017.1	691.0	727.3
70°	1036.7	812.8	781.7	772.6	713.4
72.5°	824.2	593.1	519.1	579.7	415.0
75°	625.1	612.7	537.7	351.5	374.4
77.5°	433.6	442.2	288.0	342.9	284.6
80°	288.9	250.2	260.7	218.7	215.8
82.5°	200.1	204.4	171.4	166.2	168.6
85°	139.0	123.7	120.8	115.6	114.6
87.5°	46.3	54.0	50.1	45.4	48.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)