

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-CLWG-UNV-L740-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 (P33385)
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-CLWG-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

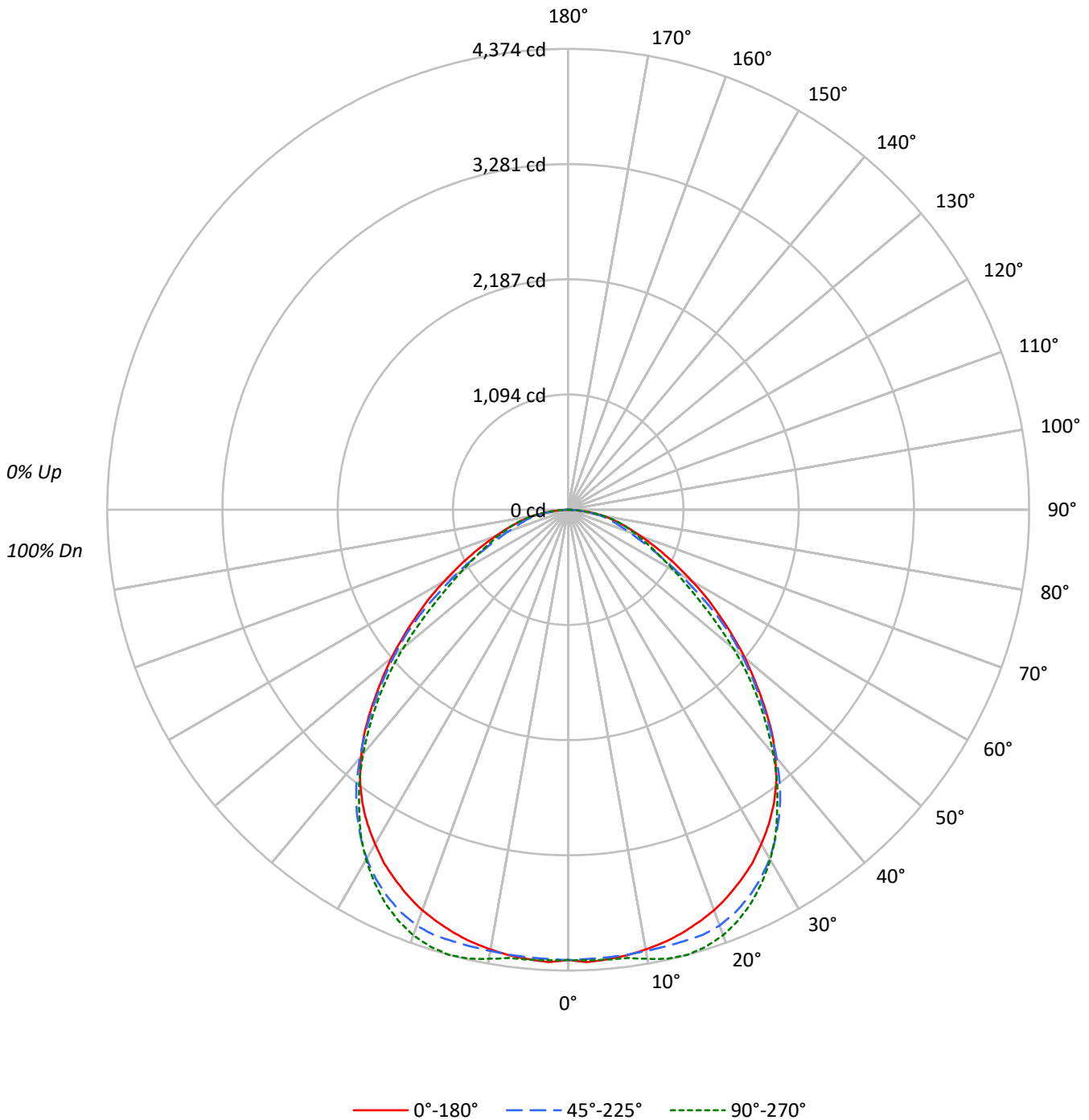
Lumens per Lamp: N/A
Luminaire Lumens: 10660.0 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
Input Voltage (V): NR
Input Current (A_{in}): 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					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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5751	5751	5751
5°	5785	5761	5789
10°	5790	5810	5914
15°	5797	5906	6092
20°	5793	6014	6155
25°	5758	6020	6108
30°	5692	5940	5959
35°	5590	5748	5679
40°	5370	5403	5317
45°	5003	4951	4850
50°	4581	4507	4276
55°	4115	3962	3616
60°	3649	3278	3121
65°	3215	2724	2833
70°	2876	2364	2698
75°	2694	2298	2728
80°	2623	2324	2597
85°	2093	1839	1907



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.2	3.8
10°-20°	1199.4	11.3
20°-30°	1845.1	17.3
30°-40°	2153.3	20.2
40°-50°	2001.0	18.8
50°-60°	1483.2	13.9
60°-70°	906.7	8.5
70°-80°	516.5	4.8
80°-90°	147.7	1.4
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°	3451.6	32.4
0°-40°	5604.9	52.6
0°-60°	9089.1	85.3
0°-90°	10660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4274	4274	4274	4274	4274	
5°	4283	4263	4266	4262	4286	407
15°	4162	4160	4240	4324	4374	1175
25°	3879	3908	4055	4089	4114	1787
35°	3403	3430	3499	3471	3457	2121
45°	2629	2645	2602	2561	2549	2026
55°	1754	1710	1689	1569	1541	1574
65°	1010	917	856	879	890	1011
75°	518	486	442	504	525	555
85°	136	132	119	124	124	156
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4274.4	4274.4	4274.4	4274.4	4274.4
2.5°	4297.5	4273.3	4268.8	4258.9	4281.0
5°	4283.2	4263.3	4265.5	4262.2	4286.5
7.5°	4266.6	4252.3	4261.1	4260.0	4292.0
10°	4238.0	4230.3	4252.3	4276.6	4328.4
12.5°	4206.0	4198.3	4246.8	4308.5	4364.8
15°	4161.9	4159.7	4240.2	4324.0	4373.6
17.5°	4106.8	4110.1	4232.5	4304.1	4348.2
20°	4046.1	4051.6	4200.5	4258.9	4298.6
22.5°	3967.9	3986.6	4138.7	4187.3	4218.1
25°	3878.6	3908.3	4055.0	4089.1	4114.5
27.5°	3782.6	3812.4	3951.3	3969.0	3983.3
30°	3663.6	3705.5	3823.4	3825.6	3835.6
32.5°	3542.3	3579.8	3670.2	3660.3	3662.5
35°	3403.4	3429.8	3499.3	3470.6	3457.4
37.5°	3243.5	3257.9	3302.0	3259.0	3256.8
40°	3057.2	3075.9	3075.9	3016.4	3027.4
42.5°	2858.8	2865.4	2837.8	2781.6	2790.4
45°	2629.4	2644.9	2601.9	2561.1	2549.0
47.5°	2402.3	2417.8	2372.6	2325.2	2304.2
50°	2188.4	2180.7	2153.2	2072.7	2042.9
52.5°	1966.8	1942.6	1931.6	1813.6	1779.4
55°	1754.1	1710.0	1689.0	1568.8	1541.3
57.5°	1556.7	1477.3	1437.6	1343.9	1332.9
60°	1356.1	1266.8	1218.3	1157.6	1159.8
62.5°	1174.2	1080.4	1022.0	1004.4	1012.1
65°	1009.9	917.3	855.5	878.7	889.7
67.5°	861.0	785.0	715.5	769.5	780.6
70°	731.0	670.3	600.9	680.2	685.7
72.5°	622.9	573.3	514.9	589.8	602.0
75°	518.2	486.2	442.1	503.8	524.8
77.5°	426.7	401.3	375.9	413.4	436.6
80°	338.5	313.1	299.9	319.7	335.2
82.5°	239.2	222.7	209.5	223.8	231.5
85°	135.6	132.3	119.1	123.5	123.5
87.5°	30.9	35.3	39.7	36.4	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)