

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-L735-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-L735-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

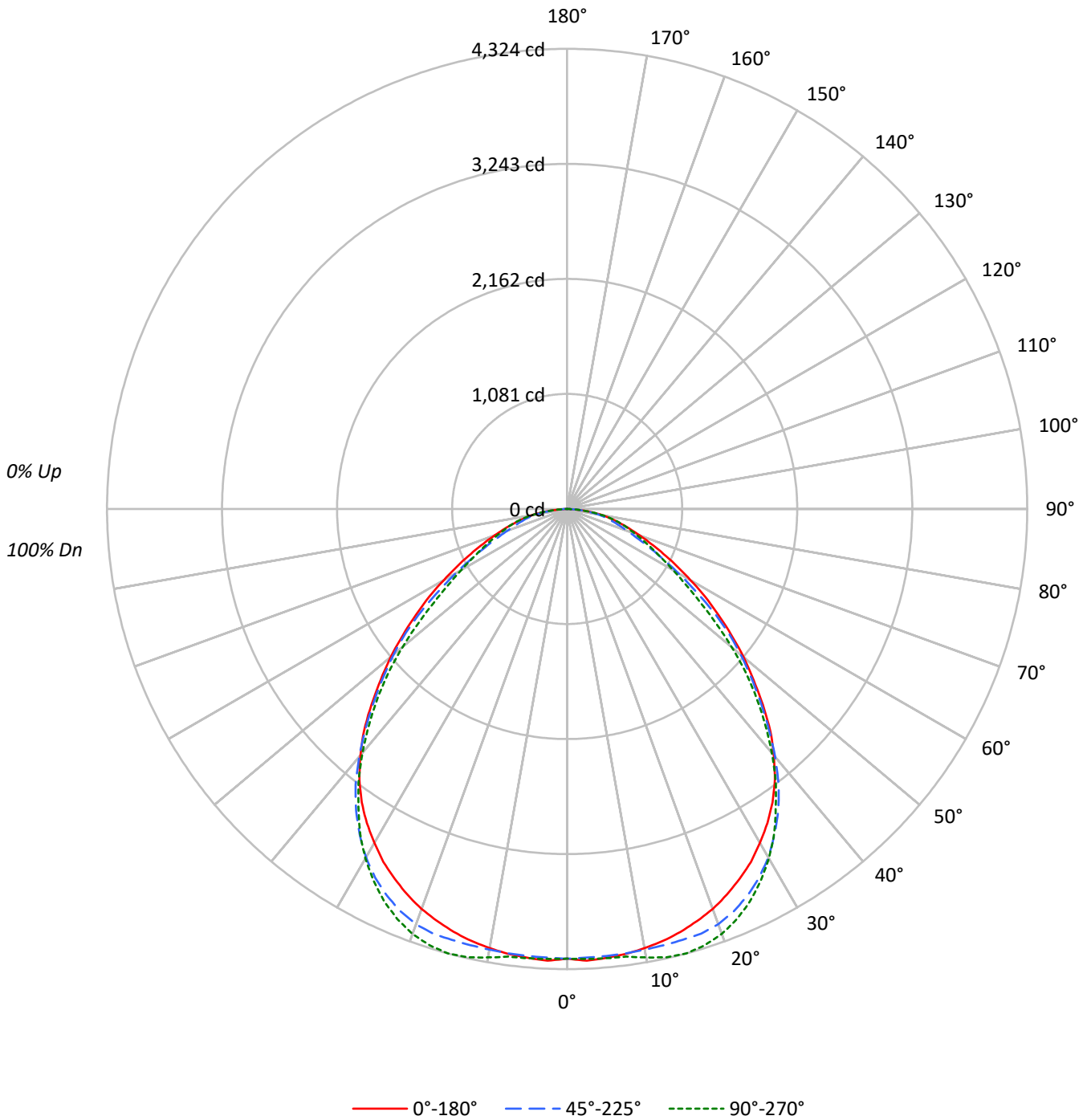
Lumens per Lamp: N/A
Luminaire Lumens: 10538.0 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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





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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	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°	5685	5685	5685
5°	5719	5695	5723
10°	5724	5743	5846
15°	5731	5839	6022
20°	5727	5946	6084
25°	5692	5951	6038
30°	5627	5872	5891
35°	5526	5682	5614
40°	5308	5341	5257
45°	4946	4894	4795
50°	4528	4455	4227
55°	4068	3917	3574
60°	3607	3241	3085
65°	3178	2692	2800
70°	2843	2337	2667
75°	2663	2272	2697
80°	2593	2297	2567
85°	2070	1817	1885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.5	3.8
10°-20°	1185.6	11.3
20°-30°	1824.0	17.3
30°-40°	2128.7	20.2
40°-50°	1978.1	18.8
50°-60°	1466.2	13.9
60°-70°	896.3	8.5
70°-80°	510.5	4.8
80°-90°	146.0	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°	3412.1	32.4
0°-40°	5540.8	52.6
0°-60°	8985.1	85.3
0°-90°	10538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10538.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4225	4225	4225	4225	4225	
5°	4234	4214	4217	4213	4237	403
15°	4114	4112	4192	4274	4324	1161
25°	3834	3864	4008	4042	4067	1766
35°	3364	3391	3459	3431	3418	2096
45°	2599	2615	2572	2532	2520	2003
55°	1734	1690	1670	1551	1524	1556
65°	998	907	846	869	880	999
75°	512	481	437	498	519	548
85°	134	131	118	122	122	155
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4225.4	4225.4	4225.4	4225.4	4225.4
2.5°	4248.3	4224.3	4220.0	4210.2	4232.0
5°	4234.2	4214.5	4216.7	4213.4	4237.4
7.5°	4217.8	4203.6	4212.4	4211.3	4242.9
10°	4189.5	4181.8	4203.6	4227.6	4278.8
12.5°	4157.9	4150.2	4198.2	4259.2	4314.8
15°	4114.3	4112.1	4191.6	4274.5	4323.5
17.5°	4059.8	4063.0	4184.0	4254.9	4298.5
20°	3999.8	4005.3	4152.4	4210.2	4249.4
22.5°	3922.4	3941.0	4091.4	4139.3	4169.9
25°	3834.2	3863.6	4008.5	4042.3	4067.4
27.5°	3739.4	3768.8	3906.1	3923.5	3937.7
30°	3621.6	3663.1	3779.7	3781.9	3791.7
32.5°	3501.8	3538.8	3628.2	3618.4	3620.6
35°	3364.4	3390.6	3459.3	3430.9	3417.8
37.5°	3206.4	3220.6	3264.2	3221.7	3219.5
40°	3022.2	3040.7	3040.7	2981.9	2992.8
42.5°	2826.0	2832.6	2805.3	2749.7	2758.5
45°	2599.3	2614.6	2572.1	2531.8	2519.8
47.5°	2374.8	2390.1	2345.4	2298.5	2277.8
50°	2163.4	2155.8	2128.5	2049.0	2019.5
52.5°	1944.3	1920.4	1909.5	1792.8	1759.1
55°	1734.0	1690.4	1669.7	1550.9	1523.6
57.5°	1538.9	1460.4	1421.2	1328.6	1317.7
60°	1340.5	1252.3	1204.3	1144.4	1146.5
62.5°	1160.7	1068.1	1010.3	992.9	1000.5
65°	998.3	906.8	845.7	868.6	879.5
67.5°	851.2	776.0	707.3	760.7	771.6
70°	722.6	662.6	594.0	672.5	677.9
72.5°	615.8	566.7	509.0	583.1	595.1
75°	512.2	480.6	437.0	498.1	518.8
77.5°	421.8	396.7	371.6	408.7	431.6
80°	334.6	309.5	296.4	316.1	331.3
82.5°	236.5	220.2	207.1	221.2	228.9
85°	134.1	130.8	117.7	122.1	122.1
87.5°	30.5	34.9	39.2	36.0	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)