

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-LD5-24SE-N-CLWG-UNV-L835-ED2-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-N-CLWG-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

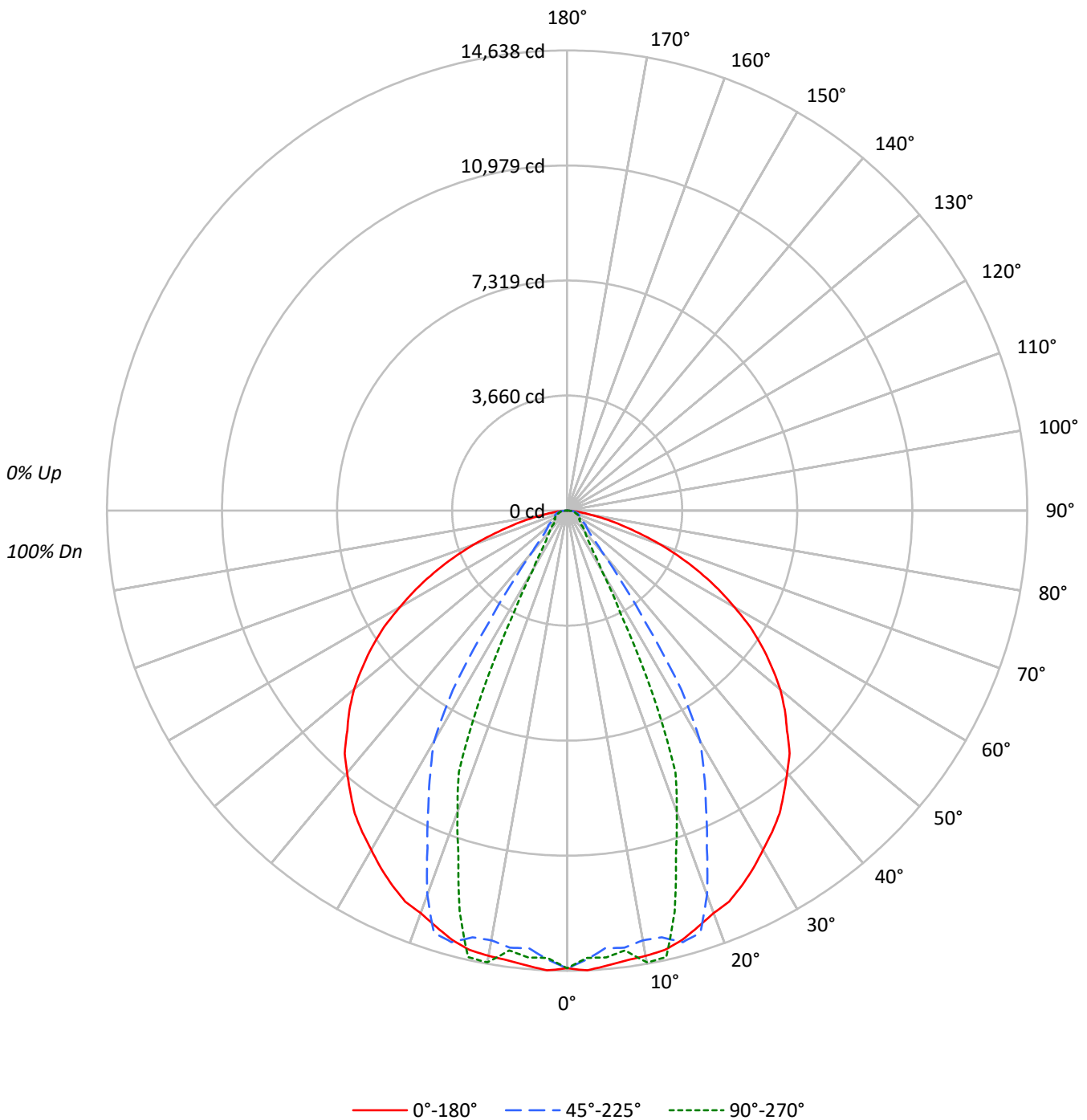
Lumens per Lamp: N/A
Luminaire Lumens: 19572.0 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 154
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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71				71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64				64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58				58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48				48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44				44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41				41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38				38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19588	19588	19588
5°	19621	18874	19271
10°	19649	18964	19938
15°	19693	19796	18399
20°	19507	18619	14604
25°	19535	15522	9539
30°	19360	13149	3427
35°	19339	7123	1928
40°	19120	3106	1510
45°	18825	1919	1184
50°	18531	1672	1117
55°	17803	1450	1093
60°	16518	1299	1175
65°	14847	1468	1284
70°	12452	1579	1324
75°	9309	1801	1433
80°	5846	2091	1635
85°	3893	2620	2393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1349.4	6.9
10°-20°	3810.4	19.5
20°-30°	4665.9	23.8
30°-40°	3664.2	18.7
40°-50°	2717.2	13.9
50°-60°	1654.2	8.5
60°-70°	990.9	5.1
70°-80°	543.6	2.8
80°-90°	176.3	0.9
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°	9825.6	50.2
0°-40°	13489.8	68.9
0°-60°	17861.2	91.3
0°-90°	19572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14559	14559	14559	14559	14559	
5°	14527	14132	13974	14128	14268	###
15°	14138	13750	14211	13637	13208	3981
25°	13158	13200	10455	8201	6426	6057
35°	11774	10710	4337	1451	1174	7347
45°	9893	7104	1009	764	622	7650
55°	7589	1957	618	523	466	6754
65°	4664	577	461	434	403	4607
75°	1791	364	346	301	276	1939
85°	252	198	170	156	155	308
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14558.6	14558.6	14558.6	14558.6	14558.6
2.5°	14638.1	14440.9	14289.8	14205.4	14239.8
5°	14527.2	14131.8	13973.9	14127.9	14268.2
7.5°	14431.1	13843.4	14021.9	14035.7	14109.3
10°	14382.0	13815.9	13880.6	14185.8	14593.0
12.5°	14317.3	13879.7	13902.2	14318.2	14547.8
15°	14137.7	13750.1	14211.3	13637.3	13208.5
17.5°	13875.7	13447.9	14081.8	12081.2	11498.4
20°	13623.6	13119.3	13003.5	10761.5	10199.3
22.5°	13460.7	13069.2	11616.1	9589.0	9008.1
25°	13158.5	13199.7	10455.4	8200.6	6425.7
27.5°	12825.9	12892.6	9429.1	5469.1	3681.4
30°	12460.9	12537.4	8463.6	3232.0	2205.7
32.5°	12130.2	11698.5	6759.3	2016.3	1533.6
35°	11774.1	10710.5	4336.8	1451.2	1173.5
37.5°	11325.7	9672.4	2745.3	1148.0	985.1
40°	10886.1	8740.3	1768.1	980.2	859.5
42.5°	10475.0	7972.0	1286.3	856.6	776.1
45°	9893.2	7103.7	1008.6	764.3	622.1
47.5°	9389.8	6085.2	882.1	646.6	536.7
50°	8853.1	4652.7	798.7	575.0	533.8
52.5°	8216.3	3043.6	737.8	550.4	498.4
55°	7589.4	1957.4	618.1	523.0	466.1
57.5°	6912.4	1241.2	545.5	507.3	486.7
60°	6138.2	836.9	482.7	480.8	436.6
62.5°	5422.0	687.8	466.1	461.2	413.1
65°	4663.5	576.9	461.2	433.7	403.3
67.5°	3906.0	494.5	417.0	396.4	369.9
70°	3165.3	452.3	401.3	392.5	336.5
72.5°	2403.9	372.8	356.2	332.6	279.6
75°	1790.6	364.0	346.4	301.2	275.7
77.5°	1211.7	335.6	315.0	269.8	249.2
80°	754.5	308.1	269.8	236.5	211.0
82.5°	448.4	257.1	221.7	195.3	178.6
85°	252.2	198.2	169.7	156.0	155.0
87.5°	54.0	71.6	56.9	54.0	38.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)