

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-W-CLWG-UNV-L750-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-CLWG-UNV-L750-ED2-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

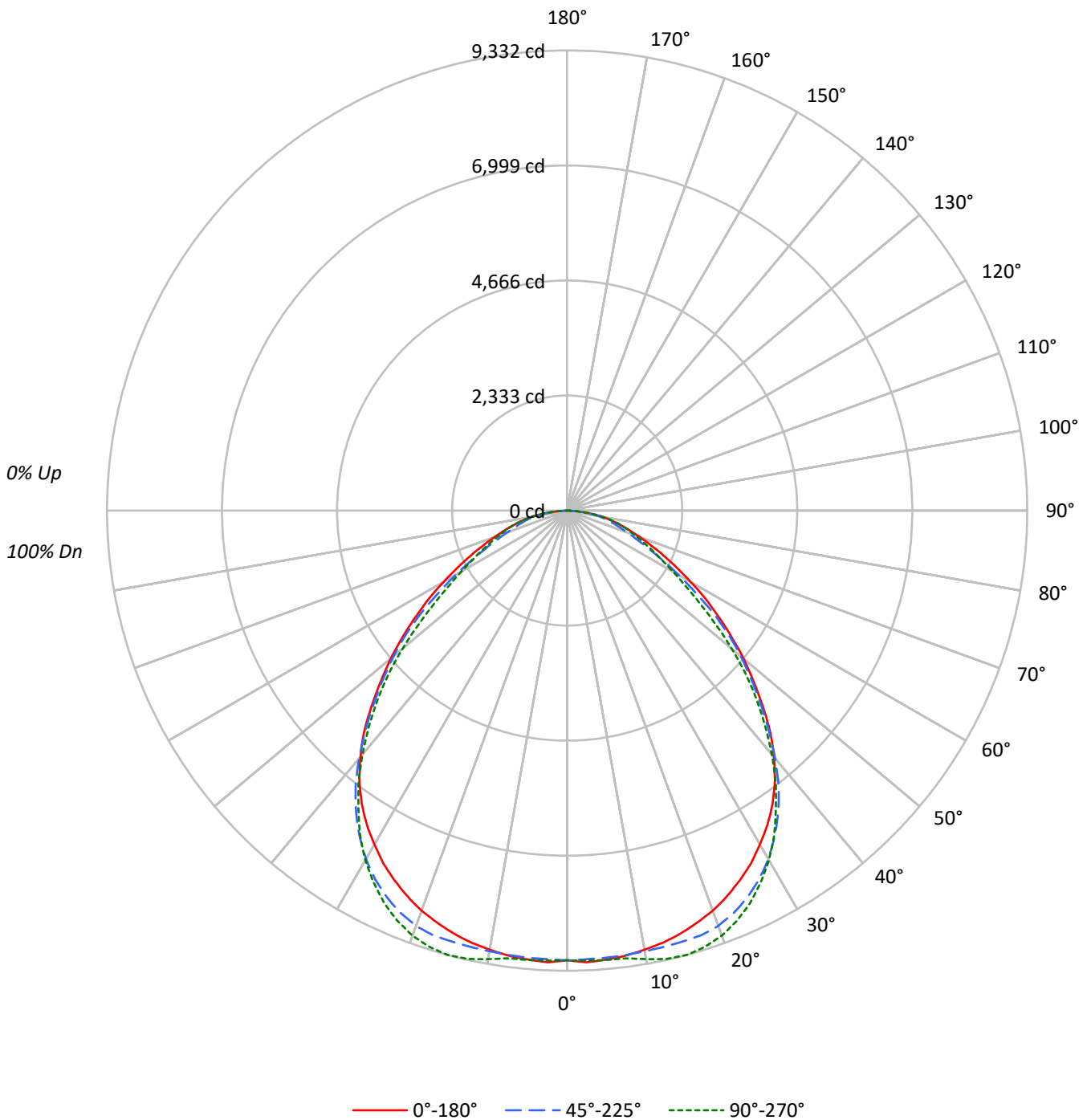
Lumens per Lamp: N/A
Luminaire Lumens: 22746.0 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 154
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	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°	12272	12272	12272
5°	12344	12293	12353
10°	12355	12396	12618
15°	12370	12603	12999
20°	12362	12833	13133
25°	12286	12845	13034
30°	12145	12675	12715
35°	11928	12264	12118
40°	11458	11528	11346
45°	10676	10564	10349
50°	9774	9617	9125
55°	8780	8454	7715
60°	7786	6995	6660
65°	6861	5812	6044
70°	6136	5044	5756
75°	5748	4904	5821
80°	5596	4958	5541
85°	4468	3923	4068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	868.8	3.8
10°-20°	2559.2	11.3
20°-30°	3937.0	17.3
30°-40°	4594.7	20.2
40°-50°	4269.7	18.8
50°-60°	3164.8	13.9
60°-70°	1934.7	8.5
70°-80°	1102.0	4.8
80°-90°	315.2	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°	7365.0	32.4
0°-40°	11959.6	52.6
0°-60°	19394.1	85.3
0°-90°	22746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22746.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9120	9120	9120	9120	9120	
5°	9139	9097	9102	9095	9146	869
15°	8880	8876	9048	9226	9332	2507
25°	8276	8340	8652	8725	8779	3812
35°	7262	7318	7467	7406	7377	4525
45°	5611	5644	5552	5465	5439	4323
55°	3743	3649	3604	3348	3289	3359
65°	2155	1957	1826	1875	1898	2157
75°	1106	1037	943	1075	1120	1183
85°	289	282	254	264	264	334
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9120.5	9120.5	9120.5	9120.5	9120.5
2.5°	9169.9	9118.1	9108.7	9087.6	9134.6
5°	9139.3	9097.0	9101.7	9094.6	9146.4
7.5°	9104.0	9073.4	9092.3	9089.9	9158.1
10°	9042.9	9026.4	9073.4	9125.2	9235.8
12.5°	8974.6	8958.2	9061.7	9193.4	9313.4
15°	8880.5	8875.8	9047.6	9226.4	9332.2
17.5°	8762.9	8770.0	9031.1	9184.0	9278.1
20°	8633.5	8645.3	8962.9	9087.6	9172.2
22.5°	8466.5	8506.5	8831.1	8934.6	9000.5
25°	8276.0	8339.5	8652.4	8725.3	8779.4
27.5°	8071.3	8134.8	8431.2	8468.9	8499.4
30°	7817.2	7906.6	8158.3	8163.0	8184.2
32.5°	7558.5	7638.4	7831.3	7810.2	7814.9
35°	7262.0	7318.5	7466.7	7405.5	7377.3
37.5°	6920.9	6951.5	7045.6	6953.9	6949.2
40°	6523.4	6563.4	6563.4	6436.3	6459.9
42.5°	6099.9	6114.0	6055.2	5935.3	5954.1
45°	5610.6	5643.6	5551.8	5464.8	5438.9
47.5°	5126.0	5158.9	5062.5	4961.3	4916.6
50°	4669.6	4653.2	4594.4	4422.6	4359.1
52.5°	4196.8	4145.0	4121.5	3869.8	3796.9
55°	3742.8	3648.7	3604.0	3347.6	3288.7
57.5°	3321.7	3152.3	3067.6	2867.6	2844.1
60°	2893.5	2703.0	2599.5	2470.1	2474.8
62.5°	2505.4	2305.4	2180.7	2143.1	2159.6
65°	2154.9	1957.2	1825.5	1874.9	1898.4
67.5°	1837.3	1675.0	1526.7	1642.0	1665.5
70°	1559.7	1430.3	1282.1	1451.5	1463.2
72.5°	1329.1	1223.3	1098.6	1258.6	1284.4
75°	1105.7	1037.4	943.3	1075.1	1119.8
77.5°	910.4	856.3	802.2	882.2	931.6
80°	722.2	668.1	639.9	682.2	715.1
82.5°	510.5	475.2	447.0	477.5	494.0
85°	289.4	282.3	254.1	263.5	263.5
87.5°	65.9	75.3	84.7	77.6	65.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)