

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-L740-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-L740-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

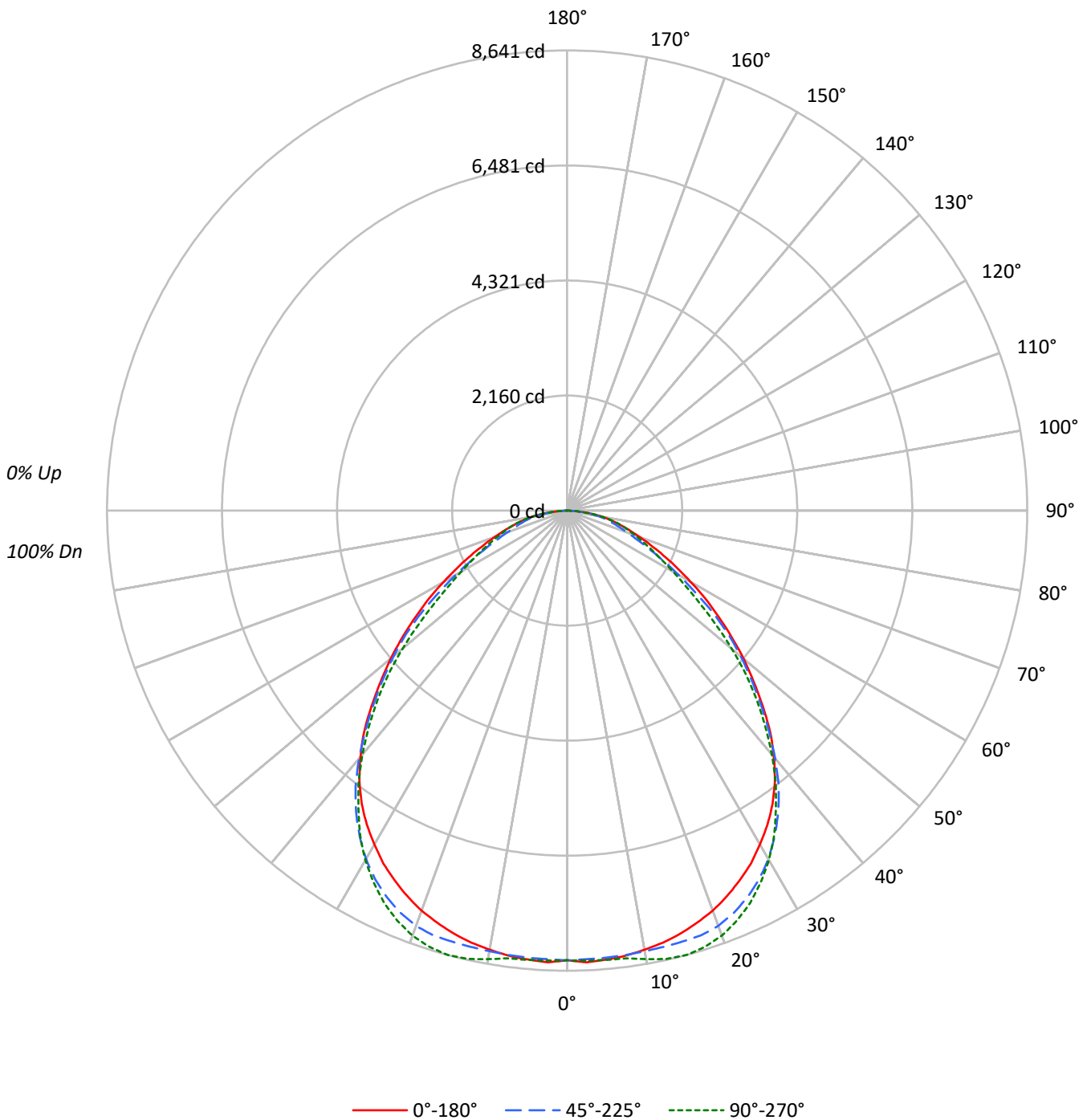
Lumens per Lamp: N/A
Luminaire Lumens: 21061.0 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24SE-W-CLWG-UNV-L740-ED2-U

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°	11363	11363	11363
5°	11429	11382	11438
10°	11440	11478	11684
15°	11454	11669	12036
20°	11446	11883	12160
25°	11376	11894	12068
30°	11245	11736	11773
35°	11045	11356	11220
40°	10609	10674	10506
45°	9885	9781	9583
50°	9050	8905	8449
55°	8129	7828	7143
60°	7210	6477	6166
65°	6352	5381	5596
70°	5681	4670	5330
75°	5322	4541	5390
80°	5181	4591	5131
85°	4136	3631	3767



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	804.5	3.8
10°-20°	2369.6	11.3
20°-30°	3645.3	17.3
30°-40°	4254.3	20.2
40°-50°	3953.4	18.8
50°-60°	2930.4	13.9
60°-70°	1791.4	8.5
70°-80°	1020.4	4.8
80°-90°	291.8	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°	6819.4	32.4
0°-40°	11073.7	52.6
0°-60°	17957.4	85.3
0°-90°	21061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8445	8445	8445	8445	8445	
5°	8462	8423	8427	8421	8469	805
15°	8223	8218	8377	8543	8641	2321
25°	7663	7722	8011	8079	8129	3530
35°	6724	6776	6914	6857	6831	4190
45°	5195	5226	5140	5060	5036	4003
55°	3466	3378	3337	3100	3045	3110
65°	1995	1812	1690	1736	1758	1997
75°	1024	961	874	995	1037	1096
85°	268	261	235	244	244	309
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8444.9	8444.9	8444.9	8444.9	8444.9
2.5°	8490.6	8442.7	8434.0	8414.4	8457.9
5°	8462.3	8423.1	8427.4	8420.9	8468.8
7.5°	8429.6	8401.3	8418.7	8416.5	8479.7
10°	8373.0	8357.7	8401.3	8449.2	8551.6
12.5°	8309.8	8294.6	8390.4	8512.4	8623.5
15°	8222.7	8218.3	8377.3	8542.9	8640.9
17.5°	8113.8	8120.3	8362.1	8503.7	8590.8
20°	7994.0	8004.9	8298.9	8414.4	8492.8
22.5°	7839.3	7876.3	8176.9	8272.8	8333.8
25°	7662.9	7721.7	8011.4	8078.9	8129.0
27.5°	7473.4	7532.2	7806.6	7841.5	7869.8
30°	7238.1	7320.9	7554.0	7558.3	7577.9
32.5°	6998.5	7072.6	7251.2	7231.6	7236.0
35°	6724.1	6776.4	6913.6	6857.0	6830.8
37.5°	6408.2	6436.6	6523.7	6438.7	6434.4
40°	6040.1	6077.2	6077.2	5959.5	5981.3
42.5°	5648.1	5661.1	5606.7	5495.6	5513.0
45°	5195.0	5225.5	5140.5	5059.9	5036.0
47.5°	4746.3	4776.8	4687.5	4593.8	4552.4
50°	4323.7	4308.5	4254.0	4095.0	4036.2
52.5°	3885.9	3838.0	3816.2	3583.1	3515.6
55°	3465.5	3378.4	3337.0	3099.6	3045.1
57.5°	3075.6	2918.8	2840.4	2655.2	2633.4
60°	2679.2	2502.7	2406.9	2287.1	2291.5
62.5°	2319.8	2134.6	2019.2	1984.3	1999.6
65°	1995.2	1812.3	1690.3	1736.0	1757.8
67.5°	1701.2	1550.9	1413.6	1520.4	1542.2
70°	1444.1	1324.3	1187.1	1343.9	1354.8
72.5°	1230.7	1132.7	1017.2	1165.3	1189.3
75°	1023.8	960.6	873.5	995.4	1036.8
77.5°	843.0	792.9	742.8	816.8	862.6
80°	668.7	618.6	592.5	631.7	662.2
82.5°	472.7	440.0	413.9	442.2	457.4
85°	267.9	261.4	235.2	244.0	244.0
87.5°	61.0	69.7	78.4	71.9	61.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)