

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-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 (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-L740-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

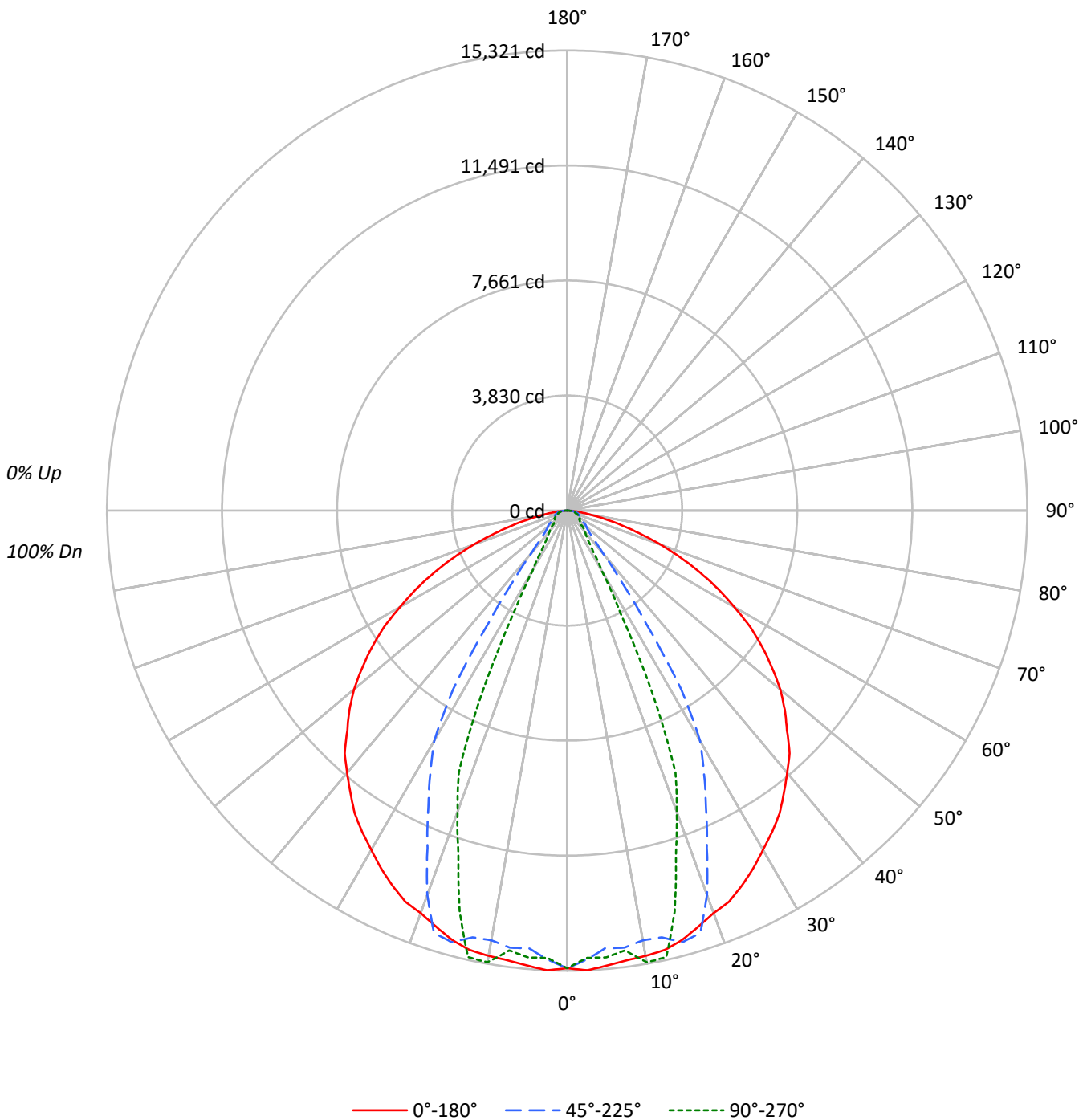
Lumens per Lamp: N/A
Luminaire Lumens: 20485.0 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 154
Input Voltage (V): NR
Input Current (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	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°	20502	20502	20502
5°	20536	19754	20170
10°	20566	19849	20868
15°	20612	20719	19257
20°	20417	19487	15285
25°	20446	16246	9984
30°	20263	13763	3587
35°	20242	7456	2017
40°	20012	3250	1580
45°	19703	2009	1239
50°	19396	1750	1169
55°	18634	1518	1144
60°	17288	1360	1230
65°	15540	1537	1344
70°	13033	1652	1386
75°	9743	1884	1500
80°	6119	2188	1711
85°	4074	2743	2506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1412.3	6.9
10°-20°	3988.1	19.5
20°-30°	4883.5	23.8
30°-40°	3835.1	18.7
40°-50°	2843.9	13.9
50°-60°	1731.3	8.5
60°-70°	1037.1	5.1
70°-80°	569.0	2.8
80°-90°	184.6	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°	10284.0	50.2
0°-40°	14119.1	68.9
0°-60°	18694.4	91.3
0°-90°	20485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15238	15238	15238	15238	15238	
5°	15205	14791	14626	14787	14934	###
15°	14797	14392	14874	14274	13825	4166
25°	13772	13816	10943	8583	6725	6340
35°	12323	11210	4539	1519	1228	7689
45°	10355	7435	1056	800	651	8007
55°	7943	2049	647	547	488	7069
65°	4881	604	483	454	422	4822
75°	1874	381	362	315	289	2029
85°	264	207	178	163	162	322
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15237.8	15237.8	15237.8	15237.8	15237.8
2.5°	15321.0	15114.5	14956.4	14868.1	14904.0
5°	15204.9	14791.0	14625.7	14786.9	14933.8
7.5°	15104.3	14489.1	14676.0	14690.4	14767.4
10°	15052.9	14460.4	14528.2	14847.5	15273.7
12.5°	14985.1	14527.1	14550.7	14986.2	15226.5
15°	14797.2	14391.6	14874.2	14273.5	13824.7
17.5°	14523.0	14075.3	14738.7	12644.7	12034.7
20°	14259.1	13731.2	13610.1	11263.5	10675.1
22.5°	14088.6	13678.9	12158.0	10036.3	9428.4
25°	13772.3	13815.5	10943.1	8583.2	6725.4
27.5°	13424.2	13494.0	9868.9	5724.2	3853.1
30°	13042.2	13122.3	8858.4	3382.7	2308.6
32.5°	12696.1	12244.2	7074.6	2110.4	1605.1
35°	12323.3	11210.1	4539.1	1518.8	1228.2
37.5°	11854.0	10123.6	2873.4	1201.5	1031.1
40°	11393.9	9148.0	1850.5	1025.9	899.6
42.5°	10963.6	8343.9	1346.3	896.5	812.3
45°	10354.7	7435.1	1055.7	800.0	651.1
47.5°	9827.8	6369.1	923.2	676.8	561.7
50°	9266.1	4869.8	835.9	601.8	558.7
52.5°	8599.6	3185.6	772.3	576.1	521.7
55°	7943.4	2048.7	647.0	547.4	487.8
57.5°	7234.8	1299.1	571.0	530.9	509.4
60°	6424.6	876.0	505.3	503.2	457.0
62.5°	5674.9	719.9	487.8	482.7	432.3
65°	4881.1	603.8	482.7	453.9	422.1
67.5°	4088.3	517.6	436.5	414.9	387.2
70°	3312.9	473.4	420.0	410.8	352.2
72.5°	2516.0	390.2	372.8	348.1	292.7
75°	1874.2	381.0	362.5	315.3	288.6
77.5°	1268.3	351.2	329.6	282.4	260.8
80°	789.7	322.5	282.4	247.5	220.8
82.5°	469.3	269.1	232.1	204.4	186.9
85°	263.9	207.4	177.7	163.3	162.3
87.5°	56.5	75.0	59.6	56.5	40.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)