

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-LD5-24HE-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-LD5-24HE-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

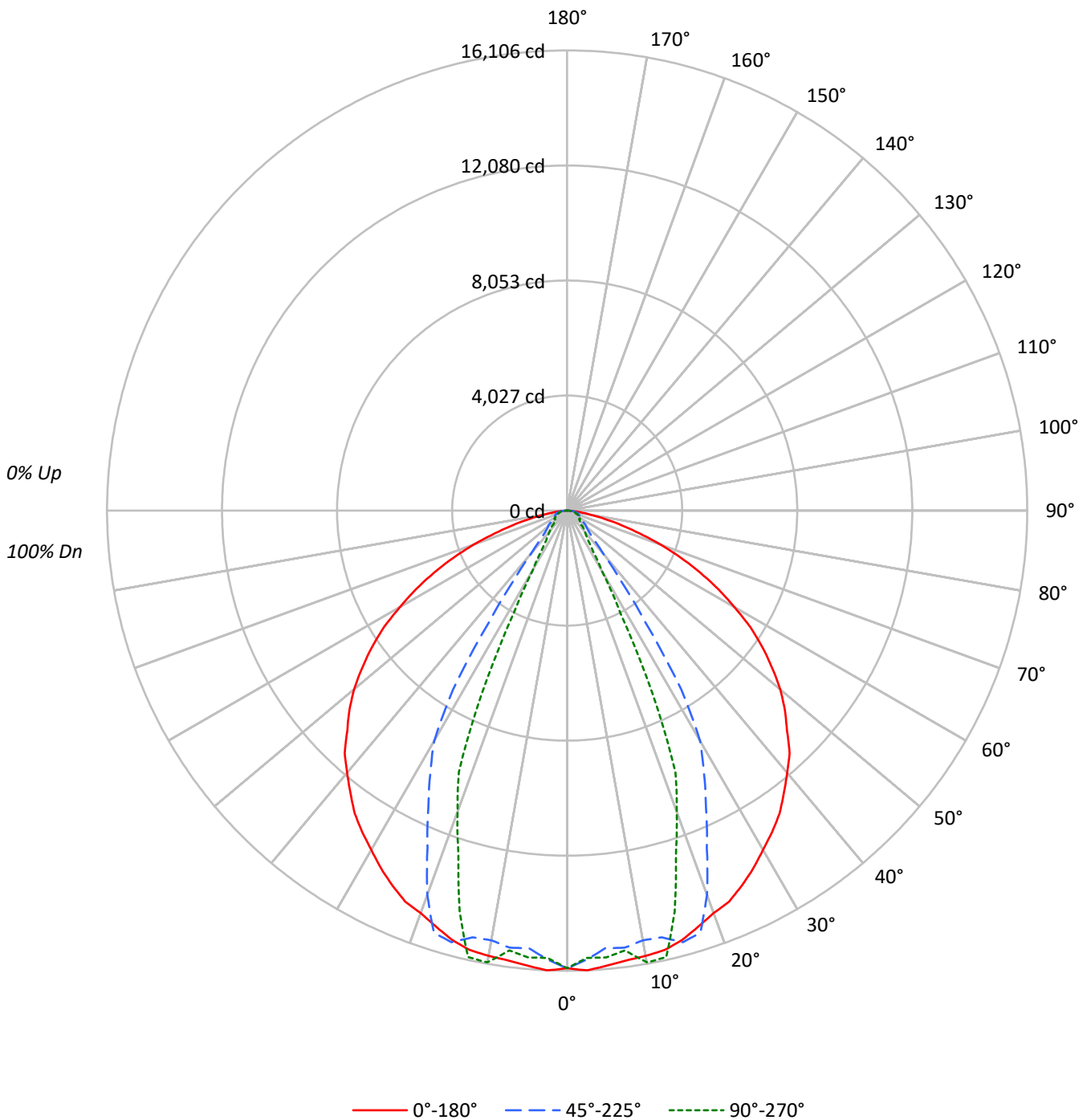
Lumens per Lamp: N/A
Luminaire Lumens: 21535.0 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 146.3
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	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°	21553	21553	21553
5°	21589	20766	21204
10°	21620	20866	21937
15°	21668	21781	20244
20°	21463	20486	16068
25°	21494	17079	10496
30°	21301	14468	3771
35°	21279	7838	2121
40°	21038	3417	1661
45°	20713	2112	1302
50°	20390	1840	1229
55°	19589	1595	1203
60°	18175	1429	1293
65°	16336	1615	1413
70°	13701	1737	1457
75°	10242	1981	1577
80°	6433	2300	1798
85°	4284	2884	2634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1484.7	6.9
10°-20°	4192.5	19.5
20°-30°	5133.9	23.8
30°-40°	4031.6	18.7
40°-50°	2989.7	13.9
50°-60°	1820.1	8.5
60°-70°	1090.3	5.1
70°-80°	598.2	2.8
80°-90°	194.0	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°	10811.1	50.2
0°-40°	14842.8	68.9
0°-60°	19652.6	91.3
0°-90°	21535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16019	16019	16019	16019	16019	
5°	15984	15549	15375	15545	15699	###
15°	15556	15129	15637	15005	14533	4380
25°	14478	14524	11504	9023	7070	6665
35°	12955	11785	4772	1597	1291	8084
45°	10885	7816	1110	841	684	8418
55°	8351	2154	680	575	513	7431
65°	5131	635	507	477	444	5070
75°	1970	400	381	331	303	2133
85°	278	218	187	172	171	339
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16018.8	16018.8	16018.8	16018.8	16018.8
2.5°	16106.3	15889.3	15723.0	15630.2	15667.9
5°	15984.3	15549.2	15375.4	15544.9	15699.3
7.5°	15878.5	15231.8	15428.3	15443.4	15524.4
10°	15824.5	15201.6	15272.8	15608.6	16056.6
12.5°	15753.2	15271.7	15296.6	15754.3	16006.9
15°	15555.7	15129.2	15636.6	15005.1	14533.3
17.5°	15267.4	14796.7	15494.1	13292.9	12651.6
20°	14990.0	14435.1	14307.7	11840.8	11222.2
22.5°	14810.8	14380.0	12781.2	10550.7	9911.6
25°	14478.3	14523.6	11504.0	9023.1	7070.2
27.5°	14112.3	14185.7	10374.8	6017.6	4050.6
30°	13710.7	13794.9	9312.5	3556.1	2426.9
32.5°	13346.9	12871.8	7437.2	2218.5	1687.4
35°	12955.0	11784.7	4771.7	1596.7	1291.2
37.5°	12461.6	10642.5	3020.7	1263.1	1083.9
40°	11977.9	9616.9	1945.4	1078.5	945.7
42.5°	11525.6	8771.6	1415.3	942.5	853.9
45°	10885.4	7816.2	1109.8	841.0	684.5
47.5°	10331.6	6695.6	970.5	711.4	590.5
50°	9741.1	5119.4	878.8	632.6	587.3
52.5°	9040.4	3348.9	811.8	605.6	548.4
55°	8350.6	2153.8	680.1	575.4	512.8
57.5°	7605.6	1365.7	600.2	558.1	535.5
60°	6753.9	920.9	531.2	529.0	480.4
62.5°	5965.8	756.8	512.8	507.4	454.5
65°	5131.2	634.8	507.4	477.2	443.7
67.5°	4297.8	544.1	458.8	436.2	407.0
70°	3482.7	497.7	441.5	431.8	370.3
72.5°	2645.0	410.2	391.9	366.0	307.7
75°	1970.2	400.5	381.1	331.4	303.4
77.5°	1333.3	369.2	346.5	296.9	274.2
80°	830.2	339.0	296.9	260.2	232.1
82.5°	493.4	282.9	244.0	214.8	196.5
85°	277.5	218.1	186.8	171.7	170.6
87.5°	59.4	78.8	62.6	59.4	42.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)