

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-L735-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-L735-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

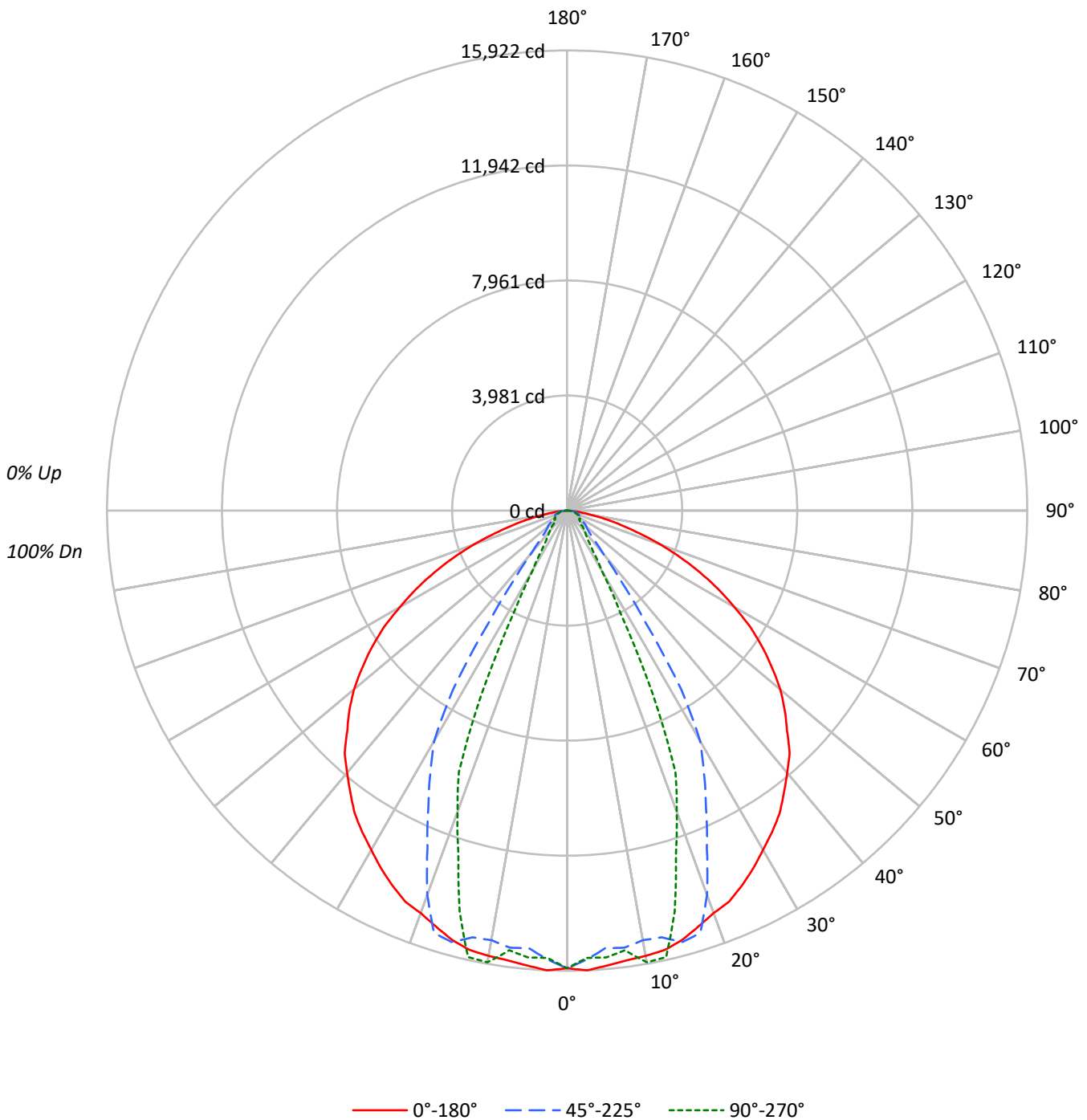
Lumens per Lamp: N/A
Luminaire Lumens: 21288.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	21306	21306	21306
5°	21341	20528	20961
10°	21372	20627	21686
15°	21420	21531	20012
20°	21217	20251	15884
25°	21248	16883	10376
30°	21057	14302	3727
35°	21035	7748	2097
40°	20797	3378	1642
45°	20475	2088	1287
50°	20156	1818	1215
55°	19364	1577	1189
60°	17966	1413	1278
65°	16149	1597	1396
70°	13544	1717	1440
75°	10125	1958	1559
80°	6359	2274	1777
85°	4235	2850	2603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1467.7	6.9
10°-20°	4144.4	19.5
20°-30°	5075.0	23.8
30°-40°	3985.4	18.7
40°-50°	2955.4	13.9
50°-60°	1799.2	8.5
60°-70°	1077.7	5.1
70°-80°	591.3	2.8
80°-90°	191.8	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°	10687.1	50.2
0°-40°	14672.5	68.9
0°-60°	19427.2	91.3
0°-90°	21288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21288.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15835	15835	15835	15835	15835	
5°	15801	15371	15199	15367	15519	###
15°	15377	14956	15457	14833	14367	4330
25°	14312	14357	11372	8920	6989	6588
35°	12806	11650	4717	1578	1276	7991
45°	10761	7726	1097	831	677	8321
55°	8255	2129	672	569	507	7346
65°	5072	628	502	472	439	5011
75°	1948	396	377	328	300	2109
85°	274	216	185	170	169	335
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15835.1	15835.1	15835.1	15835.1	15835.1
2.5°	15921.5	15707.0	15542.7	15450.9	15488.2
5°	15800.9	15370.8	15199.0	15366.6	15519.2
7.5°	15696.3	15057.1	15251.3	15266.3	15346.3
10°	15643.0	15027.2	15097.6	15429.5	15872.4
12.5°	15572.6	15096.6	15121.1	15573.6	15823.3
15°	15377.3	14955.7	15457.3	14833.0	14366.6
17.5°	15092.3	14627.0	15316.4	13140.4	12506.5
20°	14818.0	14269.5	14143.6	11705.0	11093.5
22.5°	14640.9	14215.1	12634.6	10429.7	9797.9
25°	14312.2	14357.0	11372.1	8919.6	6989.1
27.5°	13950.4	14023.0	10255.8	5948.6	4004.1
30°	13553.4	13636.7	9205.6	3515.3	2399.1
32.5°	13193.8	12724.2	7351.9	2193.1	1668.0
35°	12806.4	11649.5	4717.0	1578.4	1276.4
37.5°	12318.7	10520.4	2986.0	1248.6	1071.5
40°	11840.6	9506.6	1923.1	1066.1	934.9
42.5°	11393.4	8671.0	1399.1	931.7	844.2
45°	10760.6	7726.5	1097.1	831.3	676.6
47.5°	10213.1	6618.8	959.4	703.3	583.8
50°	9629.3	5060.7	868.7	625.4	580.6
52.5°	8936.7	3310.4	802.5	598.7	542.1
55°	8254.8	2129.1	672.3	568.8	506.9
57.5°	7518.4	1350.0	593.4	551.7	529.3
60°	6676.4	910.3	525.1	522.9	474.9
62.5°	5897.3	748.1	506.9	501.6	449.3
65°	5072.4	627.5	501.6	471.7	438.6
67.5°	4248.5	537.9	453.6	431.1	402.3
70°	3442.8	492.0	436.5	426.9	366.0
72.5°	2614.6	405.5	387.4	361.8	304.2
75°	1947.6	395.9	376.7	327.6	299.9
77.5°	1318.0	365.0	342.6	293.5	271.1
80°	820.7	335.1	293.5	257.2	229.4
82.5°	487.7	279.6	241.2	212.4	194.2
85°	274.3	215.6	184.6	169.7	168.6
87.5°	58.7	77.9	61.9	58.7	41.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)