

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-L840-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-L840-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

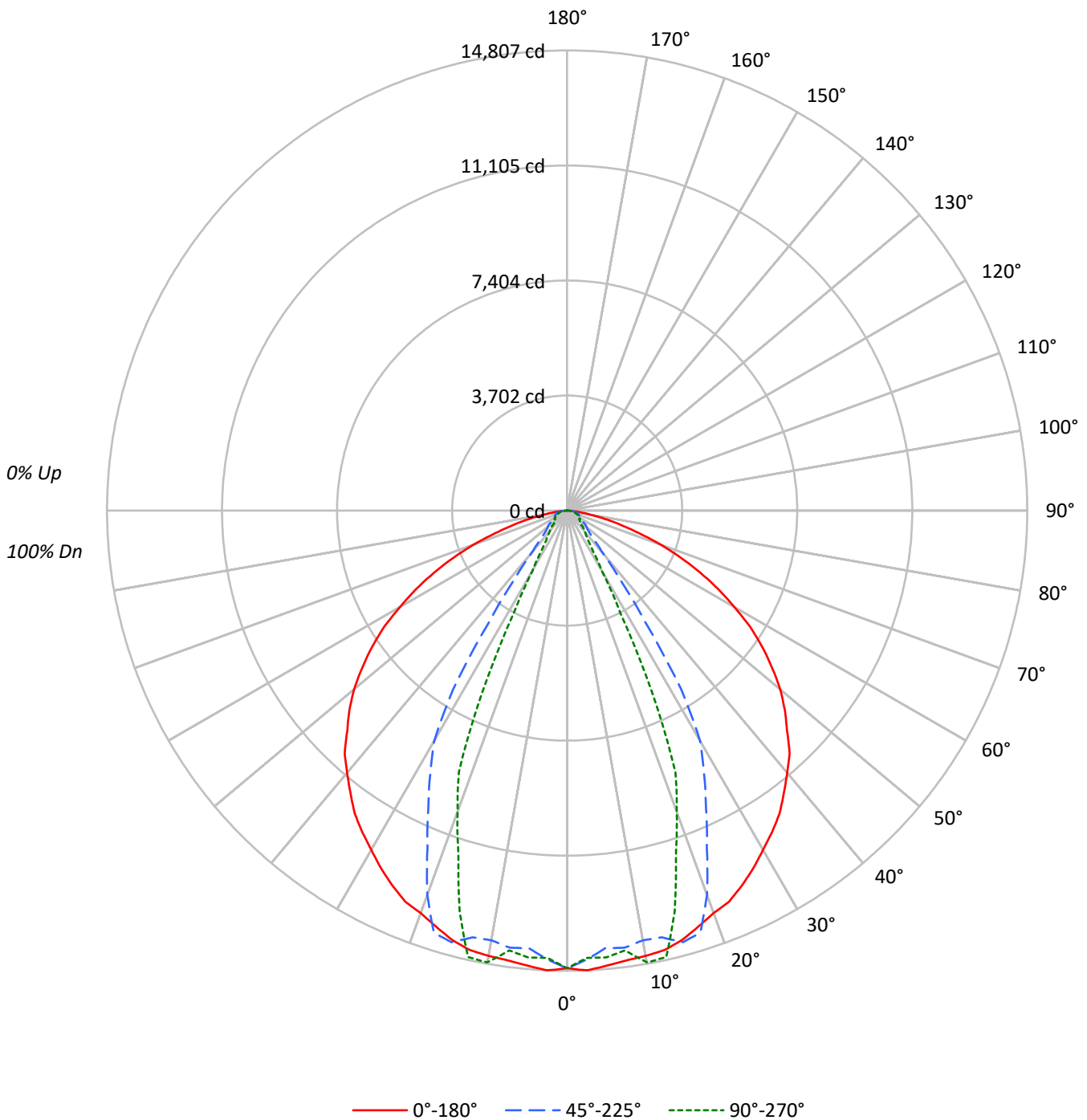
Lumens per Lamp: N/A
Luminaire Lumens: 19798.0 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 154
Input Voltage (V): NR
Input Current (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°	19815	19815	19815
5°	19847	19091	19494
10°	19876	19183	20168
15°	19921	20024	18611
20°	19732	18834	14772
25°	19760	15701	9650
30°	19583	13301	3466
35°	19563	7206	1950
40°	19341	3141	1527
45°	19042	1941	1197
50°	18745	1691	1130
55°	18009	1467	1106
60°	16709	1314	1189
65°	15019	1485	1299
70°	12596	1597	1339
75°	9416	1822	1450
80°	5914	2115	1654
85°	3938	2651	2421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1365.0	6.9
10°-20°	3854.4	19.5
20°-30°	4719.8	23.8
30°-40°	3706.5	18.7
40°-50°	2748.6	13.9
50°-60°	1673.3	8.5
60°-70°	1002.3	5.1
70°-80°	549.9	2.8
80°-90°	178.4	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°	9939.1	50.2
0°-40°	13645.6	68.9
0°-60°	18067.4	91.3
0°-90°	19798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14727	14727	14727	14727	14727	
5°	14695	14295	14135	14291	14433	###
15°	14301	13909	14375	13795	13361	4026
25°	13310	13352	10576	8295	6500	6127
35°	11910	10834	4387	1468	1187	7432
45°	10007	7186	1020	773	629	7739
55°	7677	1980	625	529	471	6832
65°	4717	584	466	439	408	4661
75°	1811	368	350	305	279	1961
85°	255	200	172	158	157	311
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14726.7	14726.7	14726.7	14726.7	14726.7
2.5°	14807.1	14607.6	14454.8	14369.4	14404.2
5°	14695.0	14295.0	14135.2	14291.0	14433.0
7.5°	14597.7	14003.2	14183.8	14197.7	14272.2
10°	14548.1	13975.4	14040.9	14349.6	14761.5
12.5°	14482.6	14039.9	14062.8	14483.6	14715.8
15°	14301.0	13908.9	14375.4	13794.8	13361.1
17.5°	14036.0	13603.2	14244.4	12220.7	11631.1
20°	13780.9	13270.7	13153.6	10885.8	10317.1
22.5°	13616.1	13220.1	11750.2	9699.7	9112.2
25°	13310.4	13352.1	10576.1	8295.3	6499.9
27.5°	12974.0	13041.5	9537.9	5532.2	3723.9
30°	12604.8	12682.2	8561.3	3269.3	2231.1
32.5°	12270.3	11833.6	6837.3	2039.6	1551.3
35°	11910.0	10834.2	4386.9	1467.9	1187.0
37.5°	11456.5	9784.1	2777.0	1161.2	996.5
40°	11011.8	8841.2	1788.5	991.5	869.4
42.5°	10596.0	8064.1	1301.2	866.5	785.1
45°	10007.4	7185.7	1020.3	773.2	629.2
47.5°	9498.2	6155.5	892.3	654.1	542.9
50°	8955.3	4706.4	807.9	581.6	539.9
52.5°	8311.2	3078.7	746.4	556.8	504.2
55°	7677.0	1980.0	625.3	529.0	471.4
57.5°	6992.2	1255.5	551.8	513.1	492.3
60°	6209.1	846.6	488.3	486.3	441.7
62.5°	5484.6	695.7	471.4	466.5	417.8
65°	4717.4	583.6	466.5	438.7	407.9
67.5°	3951.2	500.2	421.8	401.0	374.2
70°	3201.8	457.5	405.9	397.0	340.4
72.5°	2431.6	377.2	360.3	336.5	282.9
75°	1811.3	368.2	350.4	304.7	278.9
77.5°	1225.7	339.4	318.6	272.9	252.1
80°	763.2	311.6	272.9	239.2	213.4
82.5°	453.6	260.0	224.3	197.5	180.6
85°	255.1	200.5	171.7	157.8	156.8
87.5°	54.6	72.5	57.6	54.6	38.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)