

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-CLI-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 (P23766)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-CLI-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

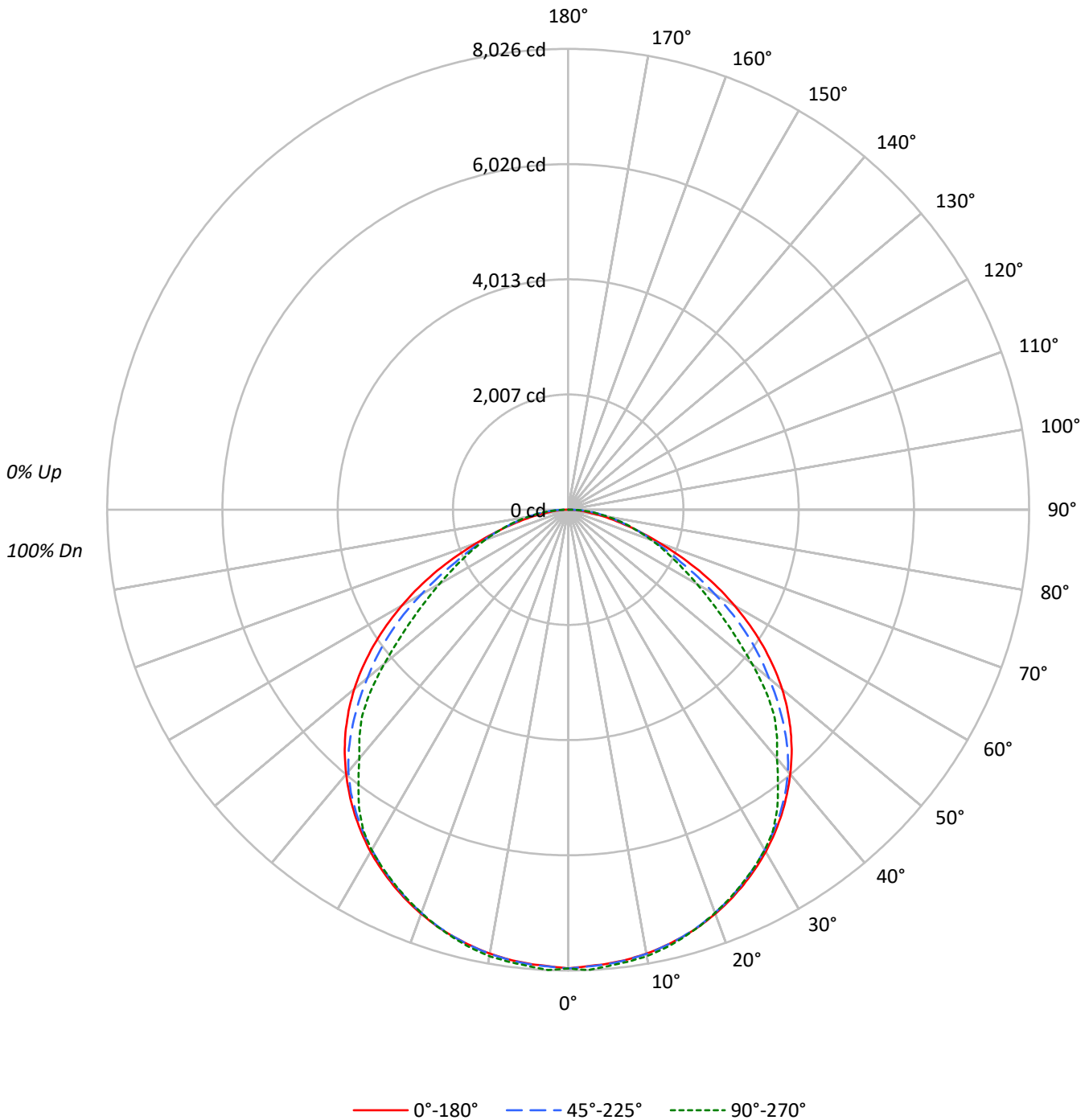
Lumens per Lamp: N/A
Luminaire Lumens: 21464.0 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10749	10749	10749
5°	10720	10728	10776
10°	10726	10732	10788
15°	10728	10726	10752
20°	10725	10700	10703
25°	10708	10669	10656
30°	10691	10627	10633
35°	10641	10575	10425
40°	10565	10457	9930
45°	10431	10097	9656
50°	10180	9560	8745
55°	9717	8941	7732
60°	9017	7977	6973
65°	8015	6907	6412
70°	6652	6172	6044
75°	5379	5649	5718
80°	4273	5402	5380
85°	3345	5805	5538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.6	3.5
10°-20°	2179.3	10.2
20°-30°	3323.0	15.5
30°-40°	4020.3	18.7
40°-50°	4072.3	19.0
50°-60°	3365.8	15.7
60°-70°	2223.1	10.4
70°-80°	1159.2	5.4
80°-90°	363.4	1.7
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°	6259.9	29.2
0°-40°	10280.3	47.9
0°-60°	17718.3	82.5
0°-90°	21464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7989	7989	7989	7989	7989	
5°	7937	7985	7943	7978	7978	755
15°	7701	7741	7700	7724	7719	2175
25°	7213	7242	7186	7204	7178	3326
35°	6478	6487	6438	6430	6347	4052
45°	5482	5468	5306	5142	5074	4221
55°	4142	4081	3811	3441	3296	3692
65°	2518	2445	2169	2028	2014	2487
75°	1035	1053	1087	1101	1100	1127
85°	217	279	376	373	359	263
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7989.0	7989.0	7989.0	7989.0	7989.0
2.5°	7955.5	8002.4	7963.1	7997.7	8025.5
5°	7937.2	7985.2	7943.0	7977.5	7978.5
7.5°	7901.7	7949.7	7906.5	7941.1	7940.1
10°	7850.9	7896.0	7854.8	7896.0	7896.0
12.5°	7781.9	7826.0	7785.7	7824.1	7818.3
15°	7701.3	7740.6	7700.3	7724.3	7718.6
17.5°	7606.4	7641.8	7596.8	7616.9	7605.4
20°	7490.3	7522.9	7473.0	7498.9	7475.0
22.5°	7359.9	7390.6	7339.7	7358.9	7332.1
25°	7213.1	7241.9	7186.3	7204.5	7177.7
27.5°	7054.9	7080.8	7018.4	7040.5	7019.4
30°	6881.3	6893.8	6840.1	6868.8	6843.9
32.5°	6687.6	6695.2	6648.2	6674.1	6631.9
35°	6478.5	6487.1	6438.2	6429.6	6347.1
37.5°	6255.0	6258.9	6212.8	6135.1	5999.0
40°	6015.3	6013.3	5953.9	5774.5	5653.7
42.5°	5759.2	5758.2	5653.7	5449.4	5380.4
45°	5482.0	5467.6	5306.5	5141.6	5074.4
47.5°	5184.7	5169.4	4944.0	4812.6	4660.1
50°	4863.4	4836.6	4567.1	4387.7	4177.7
52.5°	4517.2	4476.0	4201.7	3912.0	3713.5
55°	4142.2	4080.8	3811.3	3441.1	3296.3
57.5°	3751.9	3660.8	3398.9	3038.3	2920.4
60°	3351.0	3249.3	2964.5	2668.1	2591.4
62.5°	2938.6	2837.9	2547.3	2323.8	2281.6
65°	2517.5	2444.7	2169.4	2028.4	2014.0
67.5°	2086.0	2060.1	1850.0	1778.1	1772.4
70°	1690.8	1686.0	1569.0	1532.6	1536.4
72.5°	1351.3	1345.6	1328.3	1310.1	1311.0
75°	1034.8	1053.1	1086.6	1101.0	1100.0
77.5°	772.0	809.5	880.4	909.2	904.4
80°	551.5	607.1	697.2	724.1	694.4
82.5°	367.3	425.8	532.3	536.1	512.1
85°	216.7	279.1	376.0	373.1	358.7
87.5°	107.4	167.8	225.4	215.8	206.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)