

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-CL-UNV-L750-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 (P23762)
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-CL-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

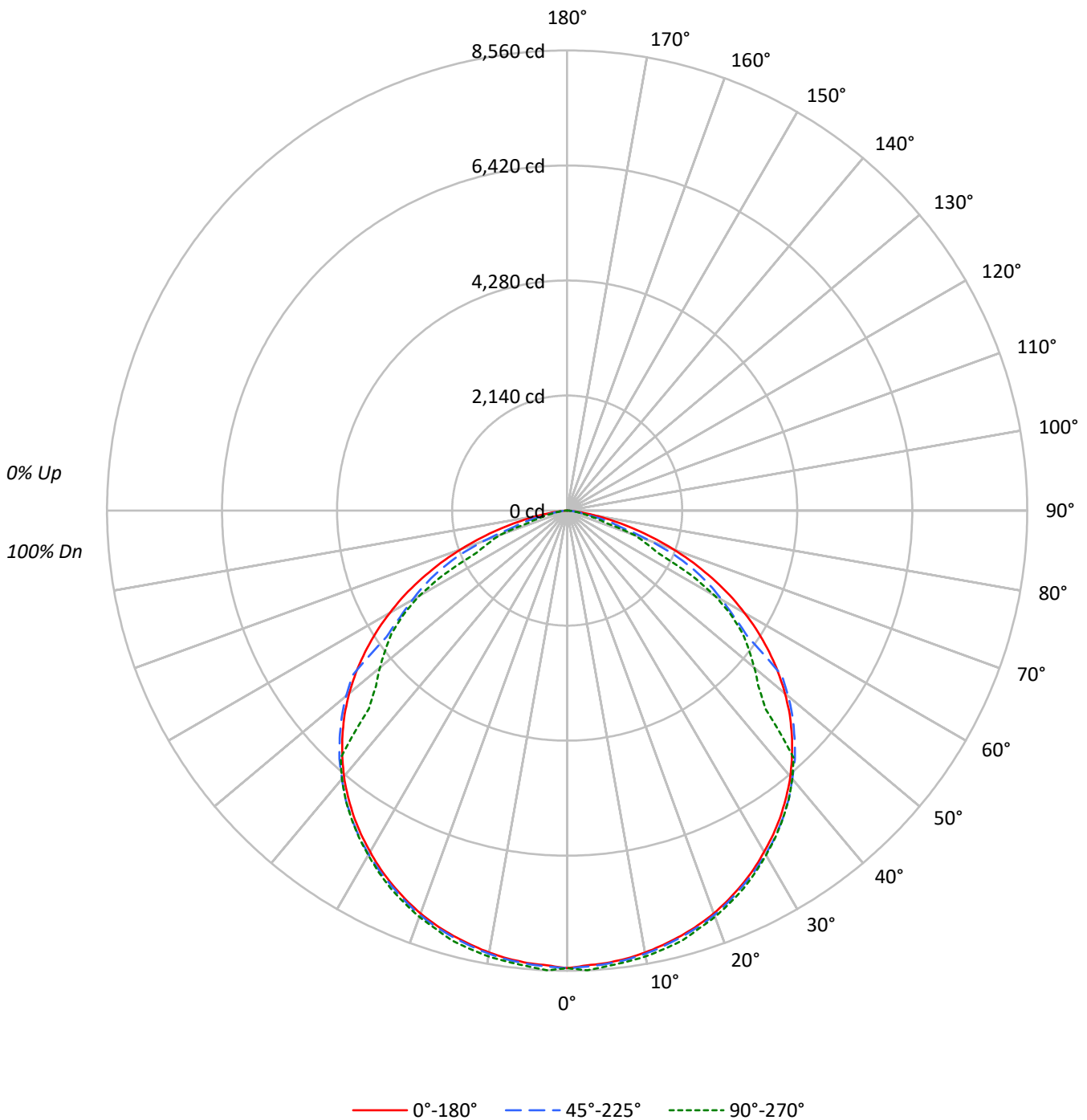
Lumens per Lamp: N/A
Luminaire Lumens: 23006.0 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	100	100	100	100	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86	86	86	86	86	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73	73	73	73	73	73	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62	62	62	62	62	62	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53	53	53	53	53	53	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46	46	46	46	46	46	46		
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40	40	40	40	40	40	40		
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36	36	36	36	36	36	36		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32	32	32	32	32	32	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29	29	29	29	29	29	29		
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26	26	26	26	26	26	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11450	11450	11450
5°	11408	11433	11489
10°	11407	11440	11506
15°	11406	11441	11533
20°	11421	11464	11517
25°	11408	11451	11520
30°	11386	11470	11496
35°	11381	11484	11493
40°	11345	11445	11445
45°	11248	11384	9919
50°	11074	11241	9517
55°	10760	9623	9348
60°	10255	8945	8540
65°	9484	8303	5915
70°	8258	6461	5270
75°	6523	4336	2833
80°	4199	2071	1767
85°	1727	1264	1391



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	807.2	3.5
10°-20°	2326.7	10.1
20°-30°	3567.2	15.5
30°-40°	4372.2	19.0
40°-50°	4494.9	19.5
50°-60°	3836.2	16.7
60°-70°	2536.2	11.0
70°-80°	939.6	4.1
80°-90°	125.7	0.5
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°	6701.2	29.1
0°-40°	11073.4	48.1
0°-60°	19404.5	84.3
0°-90°	23006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23006.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8510	8510	8510	8510	8510	
5°	8447	8506	8465	8498	8507	803
15°	8189	8238	8214	8276	8280	2313
25°	7684	7724	7713	7782	7760	3543
35°	6929	6976	6992	7035	6997	4334
45°	5911	5970	5983	5973	5213	4555
55°	4587	4671	4102	3983	3985	4093
65°	2979	3004	2608	2145	1858	2937
75°	1255	1099	834	561	545	1346
85°	112	80	82	89	90	185
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8509.8	8509.8	8509.8	8509.8	8509.8
2.5°	8468.4	8521.2	8490.1	8529.5	8559.6
5°	8446.6	8505.7	8465.3	8498.4	8506.7
7.5°	8409.3	8464.2	8426.9	8470.5	8464.2
10°	8349.2	8399.0	8373.1	8418.7	8421.8
12.5°	8272.6	8322.3	8298.5	8354.4	8353.4
15°	8188.6	8238.4	8213.5	8275.7	8279.8
17.5°	8090.2	8135.8	8117.1	8174.1	8151.3
20°	7976.2	8015.6	8006.3	8060.1	8043.6
22.5°	7836.3	7876.8	7867.4	7929.6	7904.7
25°	7684.0	7724.4	7713.0	7782.5	7759.7
27.5°	7519.3	7557.6	7556.6	7621.9	7586.6
30°	7328.6	7379.4	7382.5	7440.5	7399.1
32.5°	7140.1	7187.7	7201.2	7243.7	7208.4
35°	6928.7	6976.3	6991.9	7035.4	6997.1
37.5°	6700.7	6741.1	6769.1	6801.2	6771.2
40°	6459.3	6495.6	6516.3	6555.7	6516.3
42.5°	6189.9	6241.7	6270.7	6298.7	6234.5
45°	5911.2	5970.2	5982.7	5973.4	5212.8
47.5°	5615.9	5680.1	5687.4	4960.0	4820.1
50°	5290.5	5371.4	5370.3	4583.9	4546.6
52.5°	4951.7	5029.4	5026.3	4289.6	4264.8
55°	4587.0	4670.9	4102.1	3982.9	3985.0
57.5°	4215.0	4275.1	3680.4	3685.6	3617.2
60°	3810.9	3867.9	3323.9	3291.8	3173.7
62.5°	3405.8	3429.6	2978.9	2822.5	2597.6
65°	2978.9	3003.8	2608.0	2144.8	1857.8
67.5°	2540.6	2565.5	2164.5	1595.7	1573.9
70°	2099.2	1896.1	1642.3	1329.4	1339.7
72.5°	1664.0	1456.8	1073.4	1029.9	743.9
75°	1254.8	1099.3	834.1	560.6	545.0
77.5°	873.5	757.4	446.6	382.3	357.5
80°	541.9	380.3	267.3	237.3	228.0
82.5°	274.6	218.6	145.1	145.1	145.1
85°	111.9	79.8	81.9	89.1	90.1
87.5°	23.8	32.1	39.4	40.4	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)