

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-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-LD5-24HE-W-CL-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

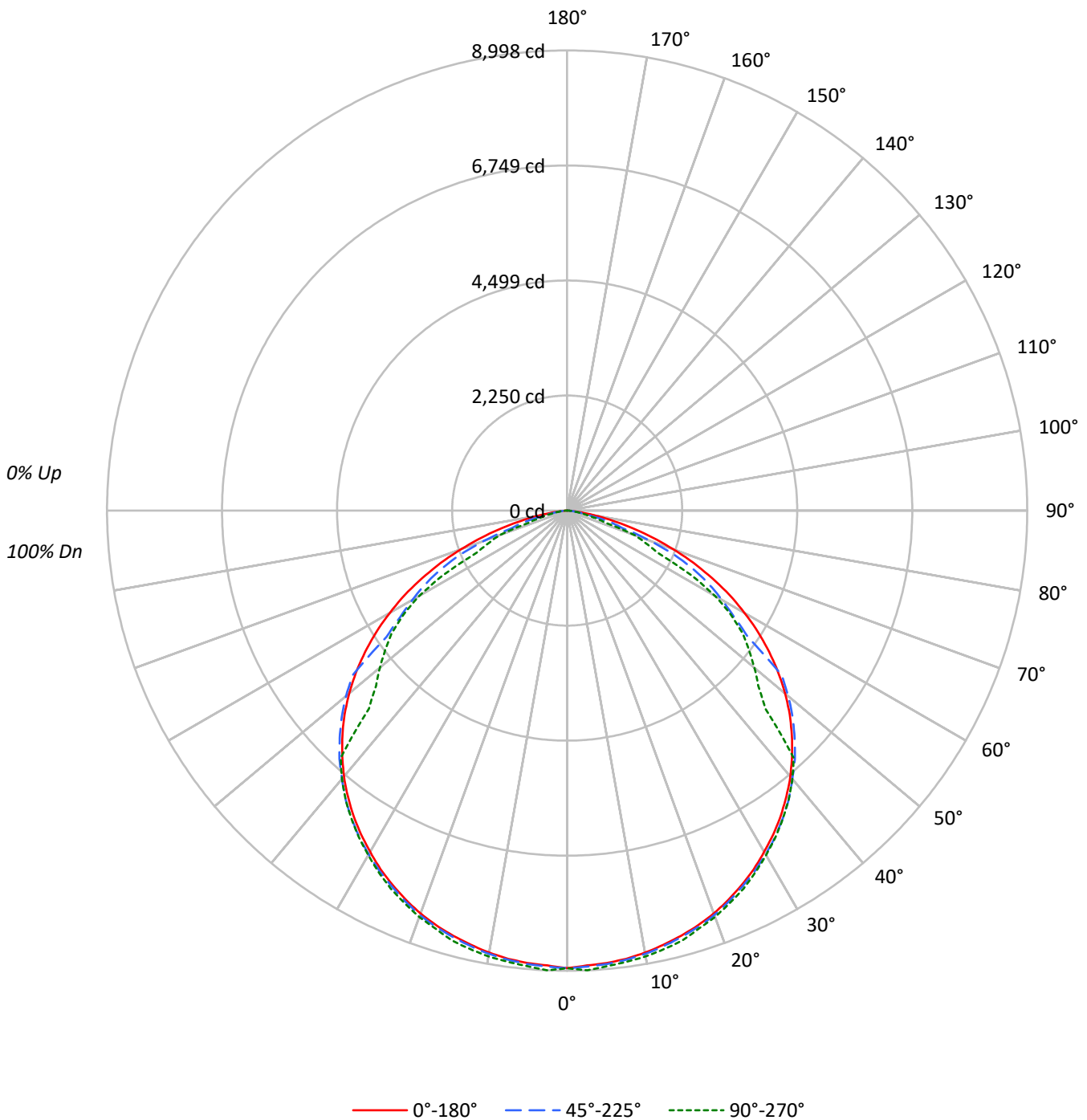
Lumens per Lamp: N/A
Luminaire Lumens: 24185.0 lumens
Efficiency: N/A
Efficacy: 165.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12037	12037	12037
5°	11993	12019	12078
10°	11992	12026	12096
15°	11991	12027	12124
20°	12006	12051	12107
25°	11992	12037	12110
30°	11970	12057	12085
35°	11964	12073	12082
40°	11927	12032	12032
45°	11824	11967	10427
50°	11642	11817	10005
55°	11312	10116	9827
60°	10781	9403	8978
65°	9970	8728	6218
70°	8681	6792	5541
75°	6857	4558	2978
80°	4414	2177	1857
85°	1815	1329	1463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	848.6	3.5
10°-20°	2446.0	10.1
20°-30°	3750.0	15.5
30°-40°	4596.2	19.0
40°-50°	4725.3	19.5
50°-60°	4032.8	16.7
60°-70°	2666.2	11.0
70°-80°	987.8	4.1
80°-90°	132.1	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°	7044.6	29.1
0°-40°	11640.8	48.1
0°-60°	20398.9	84.3
0°-90°	24185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8946	8946	8946	8946	8946	
5°	8880	8942	8899	8934	8943	845
15°	8608	8661	8634	8700	8704	2432
25°	8078	8120	8108	8181	8157	3724
35°	7284	7334	7350	7396	7356	4556
45°	6214	6276	6289	6280	5480	4789
55°	4822	4910	4312	4187	4189	4303
65°	3132	3158	2742	2255	1953	3088
75°	1319	1156	877	589	573	1415
85°	118	84	86	94	95	195
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8945.9	8945.9	8945.9	8945.9	8945.9
2.5°	8902.4	8957.9	8925.2	8966.6	8998.2
5°	8879.5	8941.6	8899.1	8934.0	8942.7
7.5°	8840.3	8898.0	8858.8	8904.5	8898.0
10°	8777.1	8829.4	8802.2	8850.1	8853.4
12.5°	8696.5	8748.8	8723.7	8782.6	8781.5
15°	8608.3	8660.6	8634.4	8699.8	8704.1
17.5°	8504.8	8552.7	8533.1	8593.0	8569.1
20°	8385.0	8426.4	8416.6	8473.2	8455.8
22.5°	8237.9	8280.4	8270.6	8336.0	8309.8
25°	8077.8	8120.3	8108.3	8181.3	8157.3
27.5°	7904.6	7944.9	7943.8	8012.5	7975.4
30°	7704.2	7757.6	7760.8	7821.8	7778.3
32.5°	7506.0	7556.1	7570.2	7614.9	7577.9
35°	7283.8	7333.9	7350.2	7395.9	7355.6
37.5°	7044.1	7086.6	7116.0	7149.8	7118.2
40°	6790.3	6828.5	6850.2	6891.6	6850.2
42.5°	6507.1	6561.6	6592.1	6621.5	6554.0
45°	6214.1	6276.2	6289.3	6279.5	5480.0
47.5°	5903.7	5971.2	5978.8	5214.2	5067.2
50°	5561.7	5646.6	5645.5	4818.8	4779.6
52.5°	5205.5	5287.2	5283.9	4509.5	4483.3
55°	4822.1	4910.3	4312.3	4187.0	4189.2
57.5°	4431.0	4494.2	3869.0	3874.4	3802.5
60°	4006.2	4066.1	3494.3	3460.5	3336.3
62.5°	3580.3	3605.4	3131.6	2967.1	2730.7
65°	3131.6	3157.7	2741.6	2254.7	1953.0
67.5°	2670.8	2697.0	2275.4	1677.4	1654.6
70°	2206.8	1993.3	1726.4	1397.5	1408.4
72.5°	1749.3	1531.5	1128.5	1082.7	782.1
75°	1319.1	1155.7	876.8	589.3	572.9
77.5°	918.2	796.2	469.5	401.9	375.8
80°	569.7	399.8	281.0	249.4	239.6
82.5°	288.6	229.8	152.5	152.5	152.5
85°	117.6	83.9	86.1	93.7	94.8
87.5°	25.1	33.8	41.4	42.5	41.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)