

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-AWG-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 (P23764)
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-AWG-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

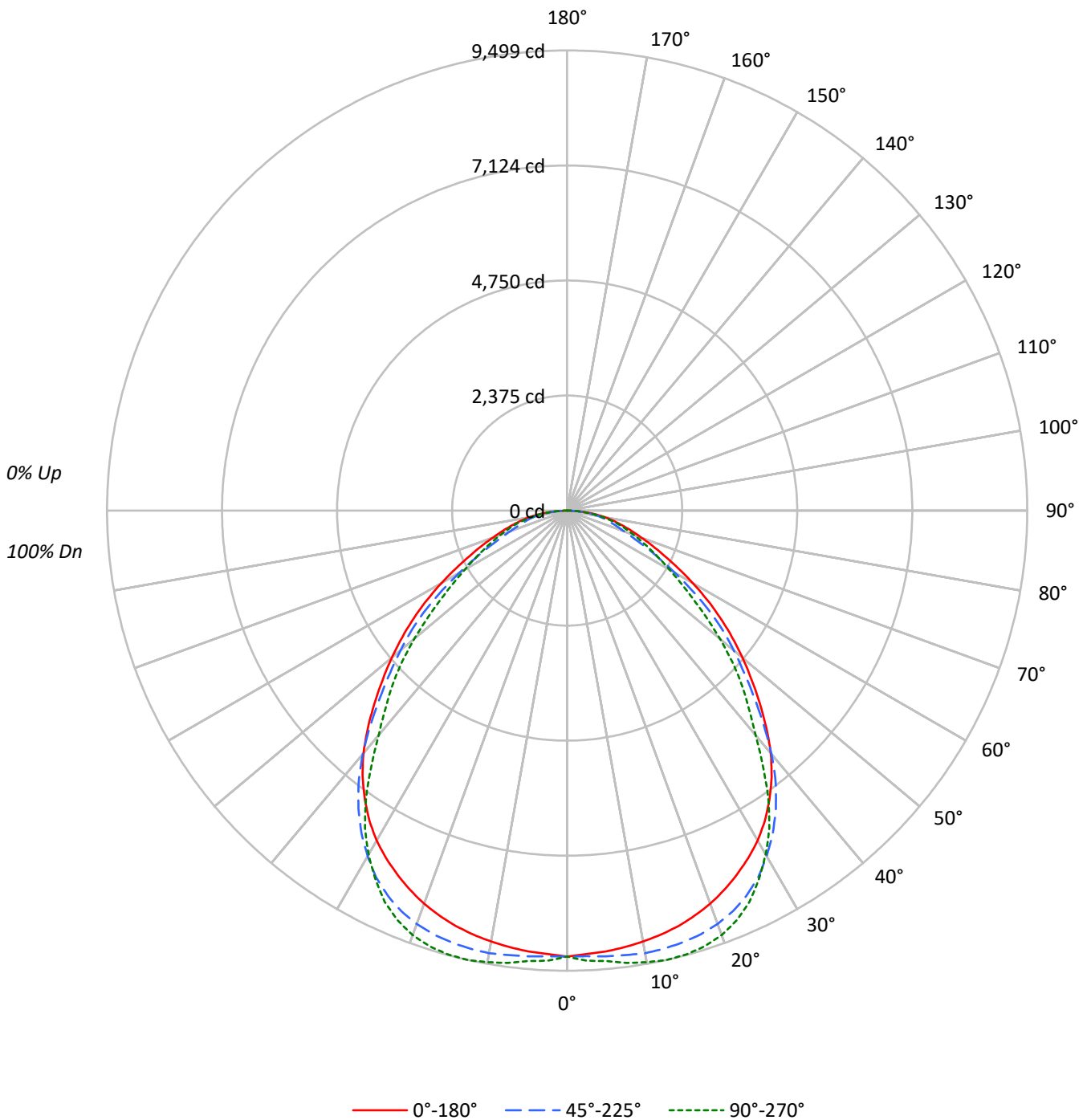
Lumens per Lamp: N/A
Luminaire Lumens: 22821.0 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63					63			
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42					42			
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38					38			
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12386	12386	12386
5°	12339	12476	12603
10°	12342	12677	12932
15°	12366	12853	13214
20°	12363	13000	13349
25°	12309	13017	13228
30°	12218	12800	12732
35°	11959	12337	11888
40°	11491	11524	10628
45°	10696	10390	9716
50°	9887	9395	8609
55°	9051	8326	7429
60°	8070	6911	6560
65°	7078	5688	6028
70°	6391	4899	5740
75°	6108	4802	5724
80°	6157	5084	5584
85°	5454	4658	4874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	884.3	3.9
10°-20°	2606.0	11.4
20°-30°	3997.3	17.5
30°-40°	4597.5	20.1
40°-50°	4193.2	18.4
50°-60°	3142.8	13.8
60°-70°	1933.2	8.5
70°-80°	1107.9	4.9
80°-90°	358.7	1.6
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°	7487.7	32.8
0°-40°	12085.1	53.0
0°-60°	19421.2	85.1
0°-90°	22821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9206	9206	9206	9206	9206	
5°	9135	9228	9238	9314	9331	869
15°	8877	9074	9227	9424	9486	2506
25°	8291	8530	8768	8903	8910	3821
35°	7281	7423	7511	7388	7237	4541
45°	5621	5743	5460	5179	5106	4338
55°	3858	3715	3550	3236	3167	3447
65°	2223	1988	1786	1842	1893	2235
75°	1175	1053	924	1058	1101	1256
85°	353	333	302	318	316	394
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9205.8	9205.8	9205.8	9205.8	9205.8
2.5°	9162.4	9228.1	9207.0	9261.0	9300.9
5°	9135.4	9228.1	9237.5	9313.8	9331.4
7.5°	9089.6	9210.5	9252.8	9387.7	9418.3
10°	9033.3	9178.8	9278.6	9424.1	9465.2
12.5°	8965.2	9134.2	9261.0	9440.6	9499.2
15°	8877.2	9074.3	9226.9	9424.1	9486.3
17.5°	8765.6	8994.5	9172.9	9366.6	9431.2
20°	8634.2	8876.0	9079.0	9277.4	9323.2
22.5°	8475.7	8718.7	8949.9	9128.3	9153.0
25°	8291.4	8529.7	8768.0	8903.0	8910.0
27.5°	8090.7	8312.6	8535.6	8608.4	8576.7
30°	7864.2	8062.6	8238.6	8253.9	8195.2
32.5°	7595.4	7773.8	7899.4	7866.5	7767.9
35°	7280.8	7422.9	7510.9	7387.6	7237.4
37.5°	6935.8	7042.6	7071.9	6804.3	6632.9
40°	6542.5	6634.1	6561.3	6189.2	6050.7
42.5°	6089.5	6195.1	6008.5	5641.1	5556.6
45°	5621.1	5743.2	5460.3	5178.6	5105.9
47.5°	5162.2	5273.7	4953.3	4726.7	4618.7
50°	4723.2	4771.3	4488.5	4232.6	4112.9
52.5°	4291.3	4243.1	4042.4	3724.3	3618.7
55°	3858.2	3715.0	3549.5	3236.1	3166.8
57.5°	3423.9	3224.3	3043.6	2802.9	2775.9
60°	2999.0	2753.6	2568.2	2425.0	2437.9
62.5°	2594.0	2344.0	2145.6	2099.9	2149.2
65°	2223.1	1988.4	1786.5	1841.6	1893.3
67.5°	1914.4	1689.0	1483.6	1624.5	1665.6
70°	1624.5	1442.6	1245.4	1427.3	1459.0
72.5°	1393.3	1238.3	1066.9	1244.2	1271.2
75°	1174.9	1052.9	923.7	1057.6	1101.0
77.5°	984.8	883.8	795.8	874.5	921.4
80°	794.6	709.0	656.1	691.3	720.7
82.5°	582.2	527.0	488.3	503.5	508.2
85°	353.3	333.3	301.7	318.1	315.7
87.5°	116.2	132.6	139.7	125.6	118.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)