

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-AI-UNV-L835-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 (P23765)
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-AI-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

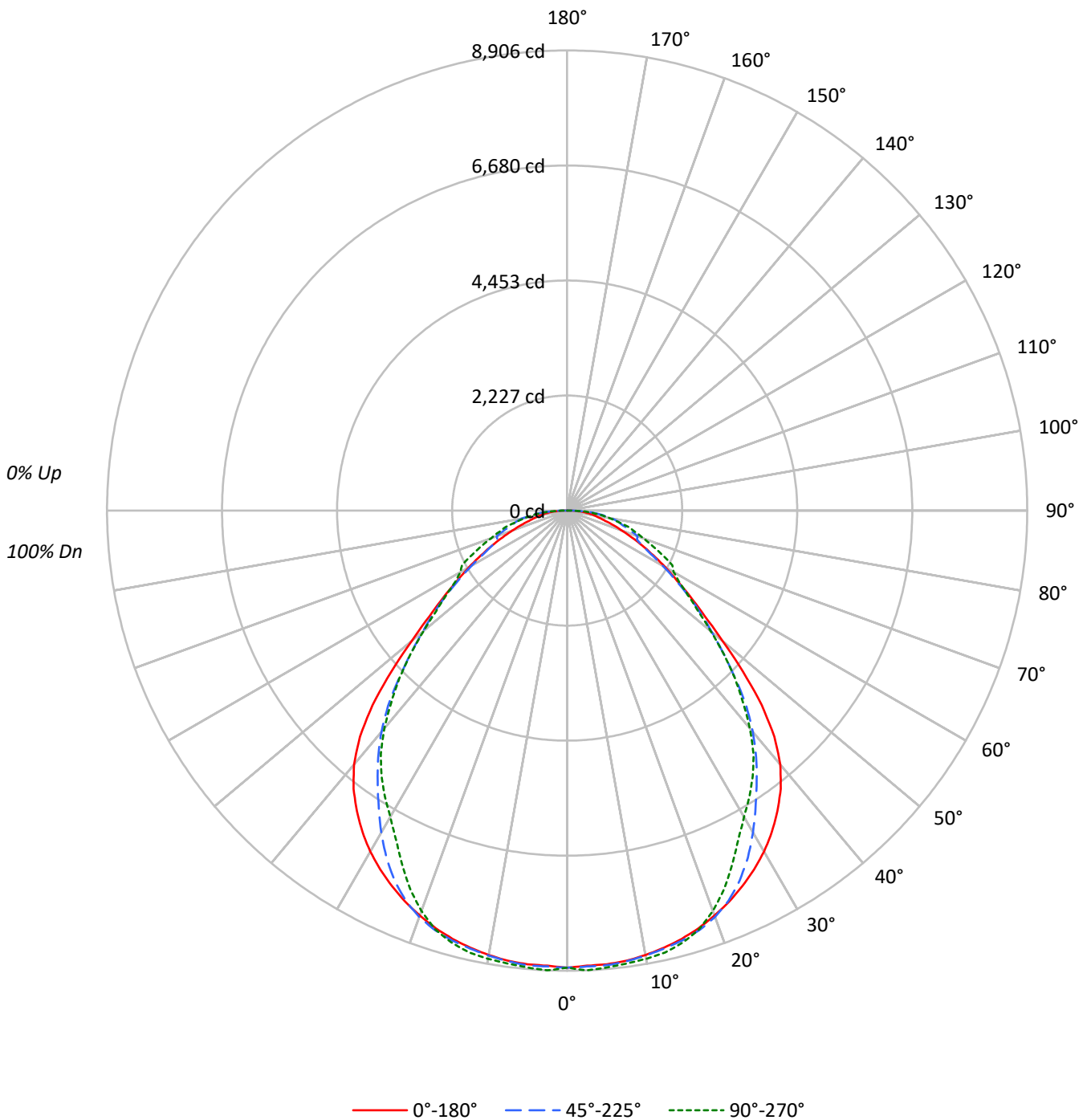
Lumens per Lamp: N/A
Luminaire Lumens: 20478.0 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11904	11904	11904
5°	11903	11929	11987
10°	11933	11948	12035
15°	11951	11996	12054
20°	11939	11983	11806
25°	11909	11730	11220
30°	11839	11177	10632
35°	11660	10505	10286
40°	11270	9822	9660
45°	10130	8771	8738
50°	8216	7640	7587
55°	6822	6695	6693
60°	5907	5734	6411
65°	5119	5087	6462
70°	4414	5707	6160
75°	3958	5849	6422
80°	4114	6885	6443
85°	4671	7933	7362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	842.4	4.1
10°-20°	2432.8	11.9
20°-30°	3613.2	17.6
30°-40°	4102.0	20.0
40°-50°	3667.1	17.9
50°-60°	2535.4	12.4
60°-70°	1673.0	8.2
70°-80°	1128.7	5.5
80°-90°	483.4	2.4
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°	6888.4	33.6
0°-40°	10990.4	53.7
0°-60°	17192.9	84.0
0°-90°	20478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8847	8847	8847	8847	8847	
5°	8813	8867	8832	8868	8875	839
15°	8580	8621	8612	8660	8654	2422
25°	8022	8098	7901	7666	7558	3696
35°	7099	6950	6396	6302	6262	4427
45°	5324	4873	4609	4644	4592	4049
55°	2908	2655	2854	2814	2853	2642
65°	1608	1428	1598	1868	2030	1605
75°	761	958	1125	1202	1235	832
85°	303	421	514	517	477	316
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8847.1	8847.1	8847.1	8847.1	8847.1
2.5°	8817.1	8872.2	8831.1	8869.2	8906.2
5°	8813.1	8867.2	8832.1	8868.2	8875.2
7.5°	8788.0	8838.1	8797.0	8832.1	8840.1
10°	8733.9	8793.0	8744.9	8799.0	8809.1
12.5°	8663.8	8723.9	8681.8	8756.0	8760.0
15°	8579.6	8620.7	8611.7	8659.8	8653.8
17.5°	8473.4	8520.5	8513.5	8525.5	8497.5
20°	8338.2	8391.3	8369.3	8314.2	8245.0
22.5°	8192.9	8257.1	8169.9	8030.6	7933.5
25°	8021.6	8097.8	7901.4	7666.0	7557.8
27.5°	7832.3	7900.4	7573.8	7285.3	7173.1
30°	7619.9	7648.9	7194.1	6919.6	6843.5
32.5°	7374.4	7332.4	6788.4	6607.0	6563.0
35°	7098.9	6949.7	6395.7	6302.5	6262.4
37.5°	6788.4	6514.9	6008.0	5964.9	5922.8
40°	6416.7	6013.0	5592.2	5564.1	5500.0
42.5°	5936.8	5467.0	5130.4	5097.3	5040.2
45°	5323.7	4872.9	4609.4	4644.5	4592.4
47.5°	4618.4	4276.8	4109.5	4205.7	4109.5
50°	3925.2	3695.7	3649.7	3736.8	3624.6
52.5°	3357.1	3150.7	3245.9	3260.9	3193.8
55°	2908.3	2654.8	2854.2	2814.1	2853.2
57.5°	2517.6	2234.1	2479.5	2433.4	2567.7
60°	2195.0	1876.4	2130.9	2120.9	2382.3
62.5°	1878.4	1624.0	1828.3	1975.6	2297.2
65°	1607.9	1427.6	1597.9	1868.4	2029.7
67.5°	1348.5	1280.3	1461.7	1611.9	1788.3
70°	1122.0	1157.1	1450.6	1422.6	1565.9
72.5°	931.7	1050.9	1280.3	1285.3	1386.5
75°	761.4	957.7	1125.1	1202.2	1235.3
77.5°	633.2	868.6	1015.9	1042.9	1010.8
80°	531.0	765.4	888.6	876.6	831.5
82.5°	428.8	580.1	700.3	711.3	658.2
85°	302.6	420.8	513.9	516.9	476.9
87.5°	162.3	259.5	311.6	320.6	296.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)