

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-A-UNV-L735-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 (P23761)
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-A-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

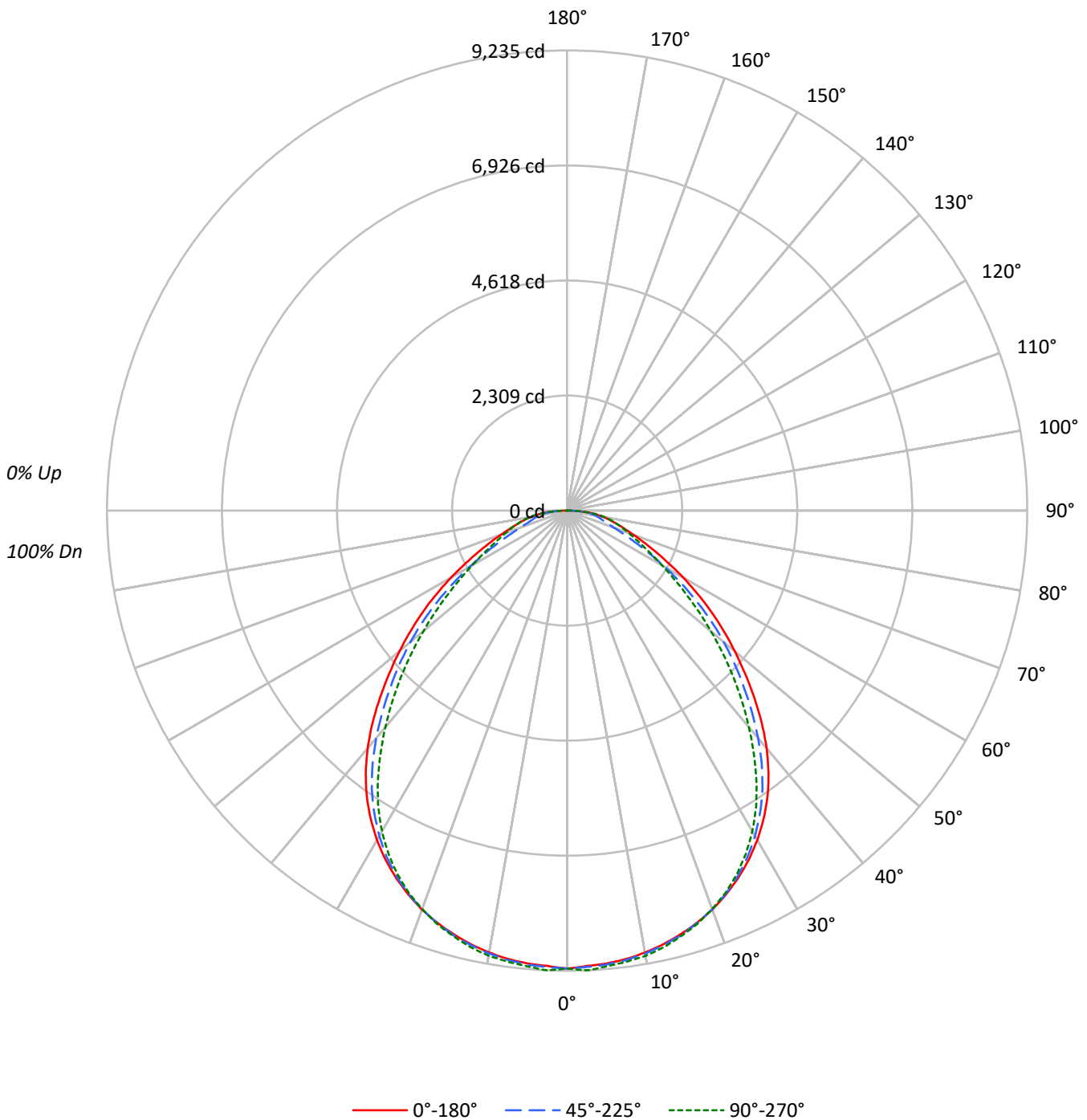
Lumens per Lamp: N/A
Luminaire Lumens: 21113.0 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12366	12366	12366
5°	12322	12350	12401
10°	12305	12333	12396
15°	12264	12288	12317
20°	12200	12191	12182
25°	12067	12026	11958
30°	11859	11716	11545
35°	11514	11225	10879
40°	10942	10472	9969
45°	10108	9544	8966
50°	9189	8594	7887
55°	8262	7440	6818
60°	7230	6081	5916
65°	6234	4782	5339
70°	5558	3902	5146
75°	5324	3810	5377
80°	5759	4506	5991
85°	6465	5425	6529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	871.1	4.1
10°-20°	2492.9	11.8
20°-30°	3729.2	17.7
30°-40°	4254.7	20.2
40°-50°	3872.9	18.3
50°-60°	2843.9	13.5
60°-70°	1679.2	8.0
70°-80°	962.3	4.6
80°-90°	406.9	1.9
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°	7093.2	33.6
0°-40°	11347.8	53.7
0°-60°	18064.6	85.6
0°-90°	21113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9191	9191	9191	9191	9191	
5°	9124	9180	9144	9180	9182	867
15°	8804	8853	8822	8853	8843	2484
25°	8128	8157	8100	8097	8055	3742
35°	7010	6976	6834	6717	6623	4368
45°	5312	5281	5016	4791	4712	4094
55°	3522	3359	3172	2942	2906	3150
65°	1958	1709	1502	1607	1677	1970
75°	1024	878	733	956	1034	1104
85°	419	387	351	415	423	438
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9190.8	9190.8	9190.8	9190.8	9190.8
2.5°	9148.3	9201.2	9168.0	9204.3	9235.4
5°	9123.5	9180.5	9144.2	9180.5	9181.5
7.5°	9077.9	9130.7	9095.5	9134.9	9130.7
10°	9006.3	9059.2	9027.1	9069.6	9072.7
12.5°	8915.1	8965.9	8932.8	8981.5	8973.2
15°	8804.2	8852.9	8821.8	8852.9	8842.6
17.5°	8673.6	8718.2	8677.8	8712.0	8694.4
20°	8520.2	8557.5	8514.0	8546.1	8507.8
22.5°	8336.8	8369.9	8324.3	8341.9	8302.5
25°	8128.4	8157.4	8100.4	8097.3	8054.8
27.5°	7896.2	7911.8	7839.2	7814.3	7765.6
30°	7633.0	7637.1	7540.7	7494.1	7430.8
32.5°	7337.5	7327.2	7203.8	7134.4	7056.6
35°	7010.0	6975.8	6833.8	6716.7	6623.4
37.5°	6640.0	6586.1	6416.1	6243.0	6153.8
40°	6229.5	6166.3	5962.1	5747.5	5676.0
42.5°	5782.8	5728.9	5488.4	5264.5	5194.0
45°	5312.2	5281.1	5015.7	4790.8	4712.0
47.5°	4841.6	4818.8	4559.7	4330.6	4235.2
50°	4389.7	4339.9	4105.7	3854.8	3767.8
52.5°	3951.2	3849.6	3643.4	3386.3	3322.1
55°	3522.1	3359.4	3171.8	2941.7	2906.4
57.5°	3097.1	2886.7	2704.3	2532.2	2531.2
60°	2686.7	2446.2	2259.6	2169.4	2198.5
62.5°	2302.1	2055.4	1853.3	1859.5	1912.4
65°	1958.0	1709.2	1501.9	1606.6	1677.1
67.5°	1662.6	1425.2	1214.8	1409.7	1477.0
70°	1412.8	1198.2	992.0	1235.5	1308.1
72.5°	1202.4	1022.0	836.5	1090.4	1164.0
75°	1024.1	877.9	732.8	955.7	1034.4
77.5°	879.0	749.4	657.2	827.1	909.0
80°	743.2	629.2	581.5	702.8	773.2
82.5°	588.7	510.0	482.0	571.1	607.4
85°	418.8	386.6	351.4	414.6	422.9
87.5°	230.1	238.4	196.9	238.4	239.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)