

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-WG-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-WG-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

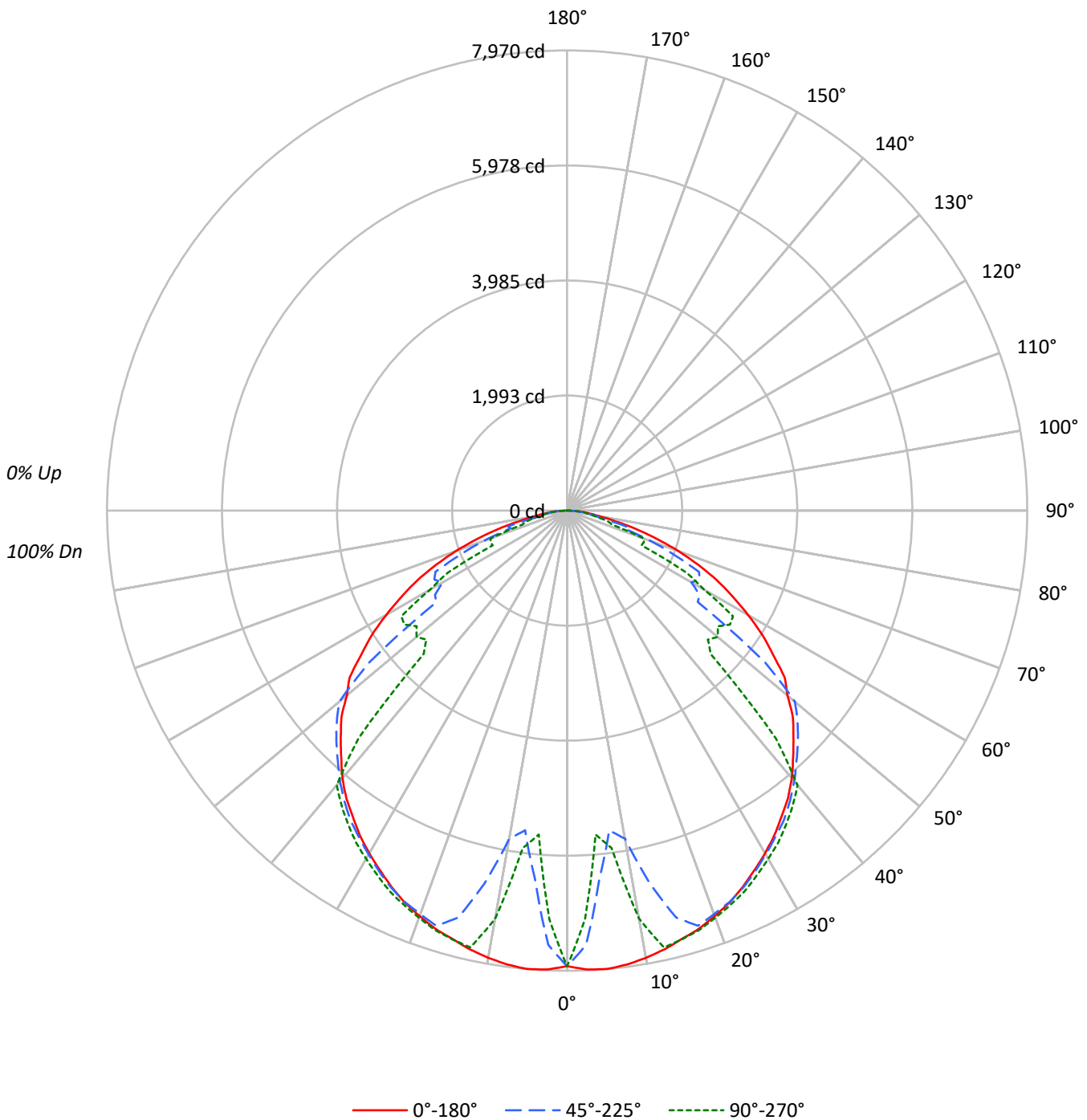
Lumens per Lamp: N/A
Luminaire Lumens: 20904.0 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10617	10617	10617
5°	10764	8648	7605
10°	10746	7887	9809
15°	10698	10165	10707
20°	10698	10650	10744
25°	10679	10703	10801
30°	10648	10683	10821
35°	10631	10749	10875
40°	10633	10749	10903
45°	10549	10756	6684
50°	10430	10777	7124
55°	10210	6480	8074
60°	9739	6680	7393
65°	9126	8020	4524
70°	8058	6076	5545
75°	6421	5523	3845
80°	4423	3992	3305
85°	4239	3685	3495



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.0	3.0
10°-20°	1976.7	9.5
20°-30°	3252.2	15.6
30°-40°	4089.2	19.6
40°-50°	4010.5	19.2
50°-60°	3322.8	15.9
60°-70°	2343.7	11.2
70°-80°	1022.5	4.9
80°-90°	255.5	1.2
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°	5859.9	28.0
0°-40°	9949.0	47.6
0°-60°	17282.3	82.7
0°-90°	20904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20904.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7891	7891	7891	7891	7891	
5°	7970	7418	6403	5805	5631	757
15°	7680	5334	7297	7710	7687	2172
25°	7193	6582	7209	7258	7275	3316
35°	6472	6469	6544	6588	6621	4055
45°	5544	5561	5653	5006	3513	4279
55°	4352	4495	2763	3141	3442	3894
65°	2866	3035	2519	1938	1421	2818
75°	1235	1210	1062	694	740	1324
85°	275	244	239	228	226	285
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7890.6	7890.6	7890.6	7890.6	7890.6
2.5°	7955.7	7790.6	7528.3	7198.0	7081.0
5°	7969.8	7417.9	6402.7	5805.4	5630.9
7.5°	7929.3	6741.4	5581.8	5707.3	5892.2
10°	7865.1	6147.0	5772.4	6791.4	7179.2
12.5°	7783.0	5618.6	6613.1	7671.7	7749.1
15°	7680.2	5333.7	7297.1	7710.4	7686.8
17.5°	7593.4	5500.7	7542.4	7633.0	7616.0
20°	7471.7	5833.7	7437.7	7510.3	7503.7
22.5°	7349.0	6228.1	7338.6	7390.5	7390.5
25°	7193.3	6581.9	7209.4	7257.5	7275.4
27.5°	7022.6	6785.7	7048.0	7087.7	7119.7
30°	6853.7	6815.0	6876.3	6927.3	6965.0
32.5°	6675.3	6660.2	6708.4	6762.1	6810.3
35°	6472.5	6468.7	6544.2	6587.6	6620.6
37.5°	6281.9	6268.7	6338.5	6398.9	6424.4
40°	6053.6	6053.6	6119.6	6180.9	6207.4
42.5°	5793.2	5830.0	5880.9	5944.1	5353.5
45°	5544.1	5561.1	5652.6	5006.3	3512.7
47.5°	5304.4	5326.1	5412.9	3218.3	3306.1
50°	4982.7	5080.8	5148.7	3208.9	3403.2
52.5°	4747.7	4790.2	4322.2	3176.8	3286.2
55°	4352.4	4494.9	2762.6	3140.9	3441.9
57.5°	4014.6	4118.4	2716.4	3218.3	3405.1
60°	3619.3	3777.8	2482.4	3105.1	2747.5
62.5°	3240.0	3391.0	2591.8	2443.7	2326.7
65°	2866.4	3035.3	2519.2	1938.0	1420.9
67.5°	2456.9	2299.3	2009.7	1365.3	1437.0
70°	2048.4	1605.9	1544.5	1526.6	1409.6
72.5°	1628.5	1171.8	1025.6	1145.4	819.9
75°	1235.1	1210.5	1062.4	694.4	739.7
77.5°	856.7	873.7	568.9	677.4	562.3
80°	570.8	494.4	515.2	432.1	426.5
82.5°	395.3	403.8	338.7	328.3	333.1
85°	274.6	244.4	238.7	228.3	226.4
87.5°	91.5	106.6	99.1	89.6	95.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)