

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-L840-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-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

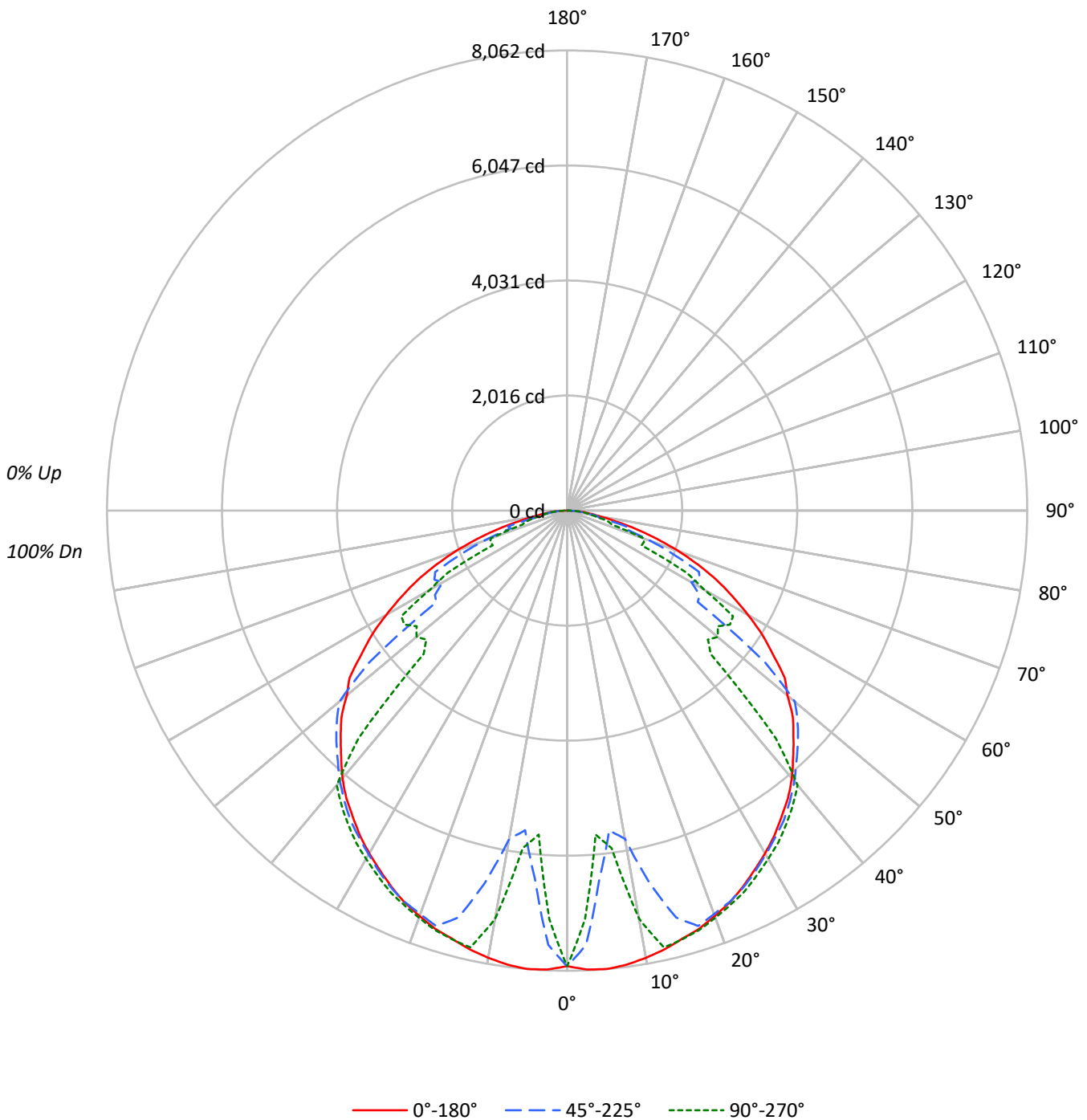
Lumens per Lamp: N/A
Luminaire Lumens: 21147.0 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	10740	10740	10740
5°	10889	8748	7694
10°	10871	7978	9922
15°	10823	10283	10832
20°	10823	10773	10869
25°	10803	10827	10927
30°	10772	10807	10947
35°	10755	10874	11001
40°	10756	10873	11029
45°	10672	10881	6762
50°	10551	10903	7207
55°	10329	6556	8168
60°	9853	6758	7479
65°	9232	8114	4576
70°	8152	6147	5610
75°	6495	5587	3890
80°	4475	4038	3343
85°	4289	3728	3537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.3	3.0
10°-20°	1999.7	9.5
20°-30°	3290.0	15.6
30°-40°	4136.7	19.6
40°-50°	4057.1	19.2
50°-60°	3361.5	15.9
60°-70°	2370.9	11.2
70°-80°	1034.4	4.9
80°-90°	258.4	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°	5928.0	28.0
0°-40°	10064.7	47.6
0°-60°	17483.2	82.7
0°-90°	21147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7982	7982	7982	7982	7982	
5°	8062	7504	6477	5873	5696	766
15°	7770	5396	7382	7800	7776	2197
25°	7277	6658	7293	7342	7360	3354
35°	6548	6544	6620	6664	6698	4102
45°	5608	5626	5718	5064	3554	4329
55°	4403	4547	2795	3178	3482	3939
65°	2900	3071	2548	1960	1437	2851
75°	1249	1225	1075	702	748	1340
85°	278	247	242	231	229	288
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7982.3	7982.3	7982.3	7982.3	7982.3
2.5°	8048.2	7881.1	7615.8	7281.7	7163.4
5°	8062.5	7504.1	6477.1	5872.9	5696.3
7.5°	8021.4	6819.8	5646.7	5773.6	5960.7
10°	7956.5	6218.4	5839.5	6870.3	7262.6
12.5°	7873.5	5683.9	6689.9	7760.9	7839.1
15°	7769.5	5395.7	7381.9	7800.0	7776.1
17.5°	7681.6	5564.6	7630.1	7721.7	7704.6
20°	7558.5	5901.5	7524.2	7597.7	7591.0
22.5°	7434.4	6300.5	7423.9	7476.4	7476.4
25°	7276.9	6658.4	7293.2	7341.8	7360.0
27.5°	7104.2	6864.6	7130.0	7170.0	7202.5
30°	6933.3	6894.2	6956.2	7007.8	7046.0
32.5°	6752.9	6737.7	6786.3	6840.7	6889.4
35°	6547.7	6543.9	6620.3	6664.2	6697.6
37.5°	6354.9	6341.6	6412.2	6473.3	6499.0
40°	6123.9	6123.9	6190.7	6252.8	6279.5
42.5°	5860.5	5897.7	5949.3	6013.2	5415.7
45°	5608.5	5625.7	5718.3	5064.5	3553.5
47.5°	5366.1	5388.0	5475.8	3255.7	3344.5
50°	5040.6	5139.9	5208.6	3246.2	3442.8
52.5°	4802.9	4845.9	4372.5	3213.7	3324.4
55°	4403.0	4547.1	2794.7	3177.5	3481.9
57.5°	4061.3	4166.3	2747.9	3255.7	3444.7
60°	3661.4	3821.7	2511.2	3141.2	2779.4
62.5°	3277.7	3430.4	2622.0	2472.1	2353.7
65°	2899.7	3070.6	2548.5	1960.5	1437.4
67.5°	2485.5	2326.1	2033.0	1381.1	1453.7
70°	2072.2	1624.5	1562.5	1544.3	1426.0
72.5°	1647.4	1185.5	1037.5	1158.7	829.4
75°	1249.4	1224.6	1074.7	702.5	748.3
77.5°	866.7	883.8	575.6	685.3	568.9
80°	577.5	500.1	521.1	437.2	431.4
82.5°	399.9	408.5	342.7	332.2	336.9
85°	277.8	247.2	241.5	231.0	229.1
87.5°	92.6	107.9	100.2	90.7	96.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)