

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-L850-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-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

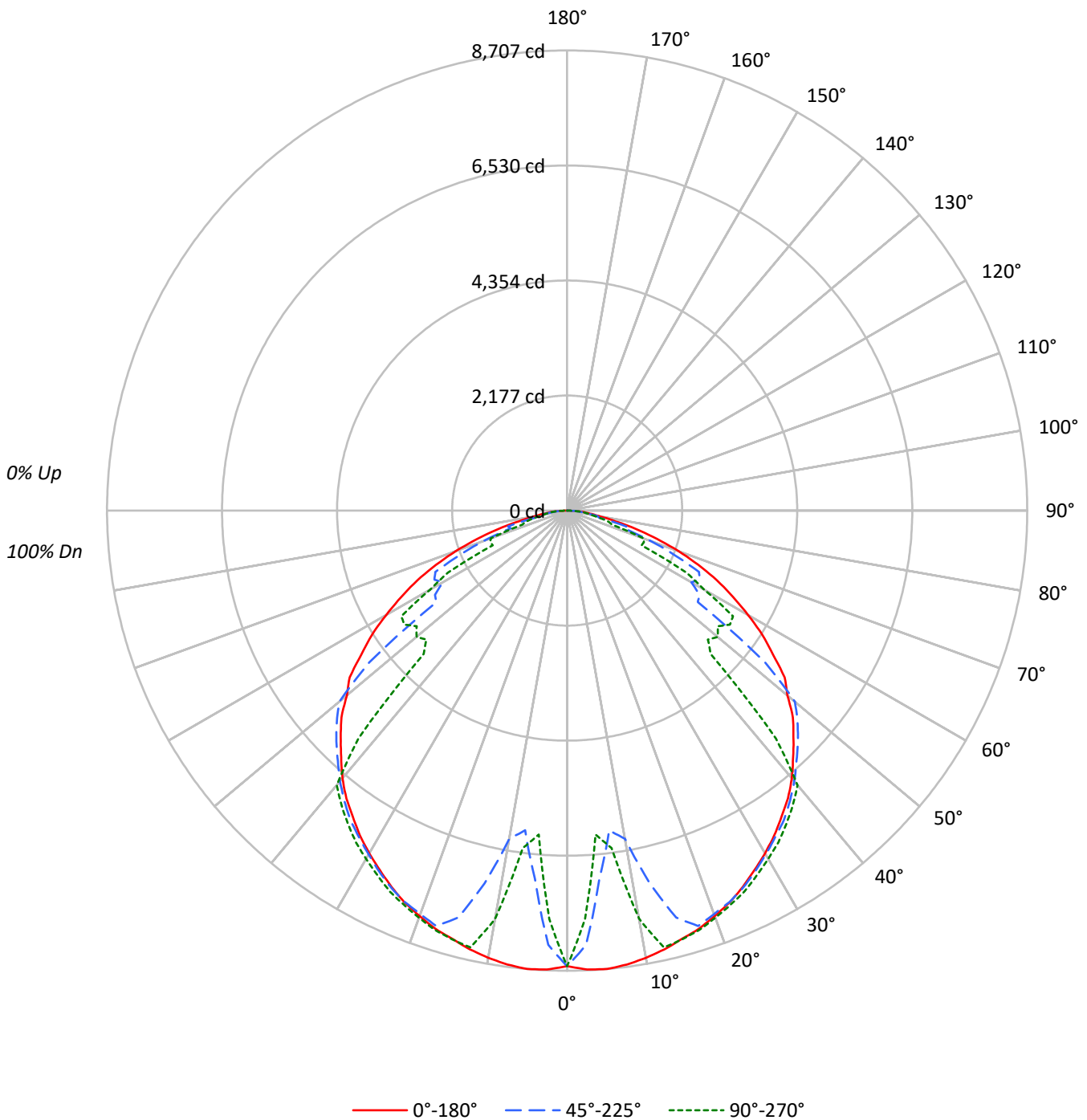
Lumens per Lamp: N/A
Luminaire Lumens: 22838.0 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	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°	11599	11599	11599
5°	11760	9448	8309
10°	11740	8616	10716
15°	11688	11105	11698
20°	11688	11635	11738
25°	11667	11693	11800
30°	11633	11672	11822
35°	11615	11743	11881
40°	11616	11743	11911
45°	11525	11751	7302
50°	11395	11775	7783
55°	11154	7080	8821
60°	10641	7298	8078
65°	9970	8762	4942
70°	8804	6638	6058
75°	7014	6034	4201
80°	4832	4361	3610
85°	4631	4026	3819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.3	3.0
10°-20°	2159.6	9.5
20°-30°	3553.0	15.6
30°-40°	4467.5	19.6
40°-50°	4381.5	19.2
50°-60°	3630.3	15.9
60°-70°	2560.5	11.2
70°-80°	1117.1	4.9
80°-90°	279.1	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°	6402.0	28.0
0°-40°	10869.5	47.6
0°-60°	18881.3	82.7
0°-90°	22838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8621	8621	8621	8621	8621	
5°	8707	8104	6995	6342	6152	827
15°	8391	5827	7972	8424	8398	2373
25°	7859	7191	7876	7929	7948	3622
35°	7071	7067	7150	7197	7233	4430
45°	6057	6076	6176	5469	3838	4675
55°	4755	4911	3018	3432	3760	4254
65°	3132	3316	2752	2117	1552	3079
75°	1349	1322	1161	759	808	1447
85°	300	267	261	250	247	311
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8620.6	8620.6	8620.6	8620.6	8620.6
2.5°	8691.7	8511.3	8224.8	7864.0	7736.2
5°	8707.2	8104.2	6995.0	6342.5	6151.8
7.5°	8662.9	7365.1	6098.2	6235.3	6437.4
10°	8592.8	6715.7	6306.5	7419.7	7843.4
12.5°	8503.1	6138.4	7224.9	8381.5	8466.0
15°	8390.7	5827.1	7972.2	8423.7	8397.9
17.5°	8295.9	6009.6	8240.2	8339.2	8320.6
20°	8162.9	6373.5	8125.8	8205.2	8198.0
22.5°	8028.9	6804.3	8017.6	8074.3	8074.3
25°	7858.8	7190.9	7876.4	7928.9	7948.5
27.5°	7672.3	7413.5	7700.1	7743.4	7778.4
30°	7487.8	7445.5	7512.5	7568.2	7609.4
32.5°	7292.9	7276.4	7329.0	7387.8	7440.3
35°	7071.3	7067.2	7149.6	7197.1	7233.1
37.5°	6863.1	6848.7	6924.9	6990.9	7018.7
40°	6613.6	6613.6	6685.8	6752.8	6781.7
42.5°	6329.1	6369.3	6425.0	6494.1	5848.8
45°	6057.0	6075.6	6175.5	5469.4	3837.7
47.5°	5795.2	5818.9	5913.7	3516.1	3611.9
50°	5443.7	5550.9	5625.1	3505.8	3718.1
52.5°	5187.0	5233.4	4722.1	3470.7	3590.3
55°	4755.1	4910.7	3018.2	3431.5	3760.4
57.5°	4386.1	4499.5	2967.7	3516.1	3720.2
60°	3954.2	4127.3	2712.0	3392.4	3001.7
62.5°	3539.8	3704.7	2831.6	2669.8	2542.0
65°	3131.6	3316.1	2752.2	2117.3	1552.4
67.5°	2684.2	2512.1	2195.6	1491.6	1569.9
70°	2237.9	1754.4	1687.4	1667.8	1540.0
72.5°	1779.2	1280.3	1120.5	1251.4	895.8
75°	1349.3	1322.5	1160.7	758.7	808.1
77.5°	936.0	954.5	621.6	740.1	614.4
80°	623.6	540.1	562.8	472.1	465.9
82.5°	431.9	441.2	370.1	358.7	363.9
85°	300.0	267.0	260.8	249.5	247.4
87.5°	100.0	116.5	108.2	97.9	104.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)