

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-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-LD5-24HE-W-WG-UNV-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

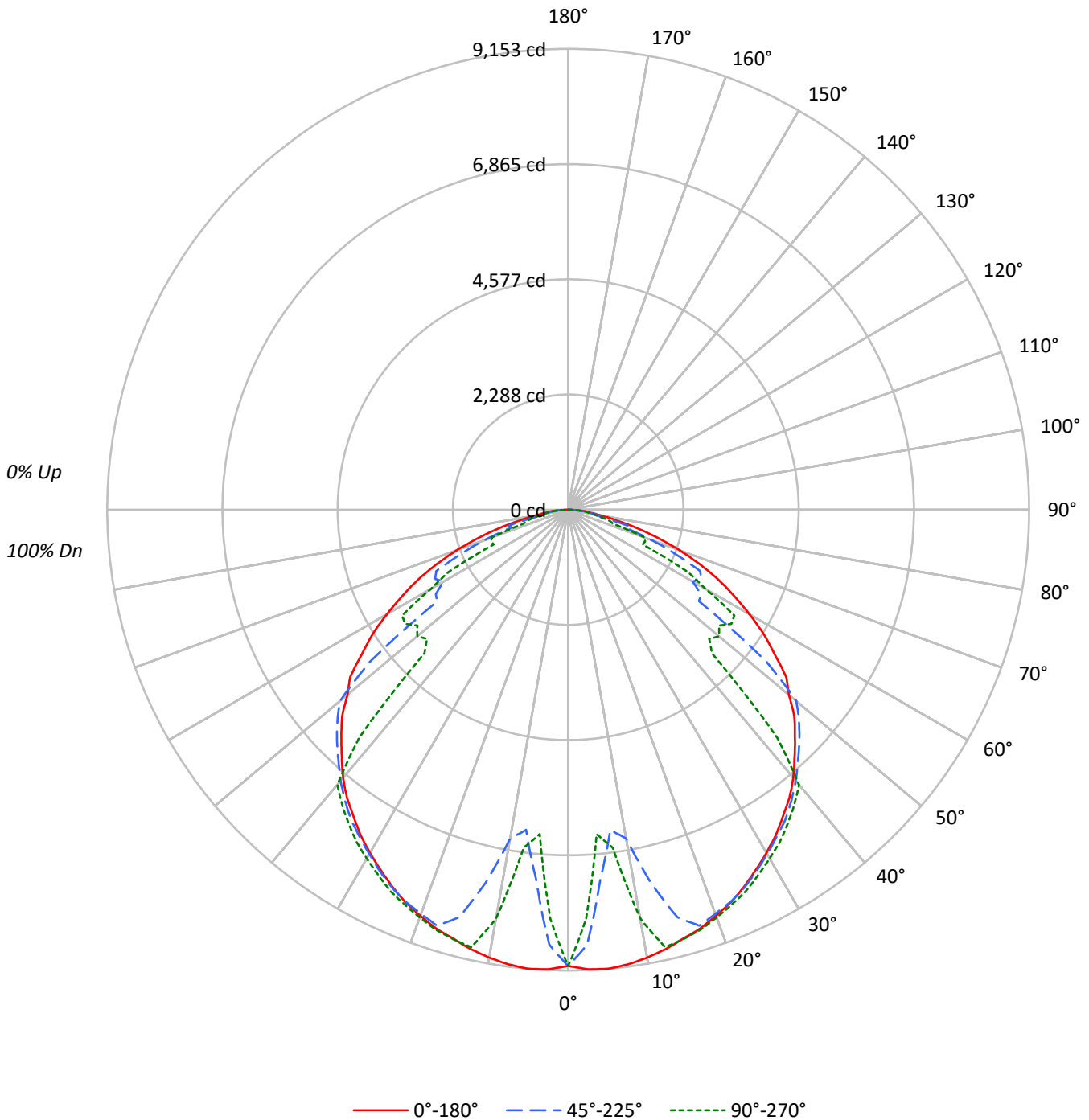
Lumens per Lamp: N/A
Luminaire Lumens: 24008.0 lumens
Efficiency: N/A
Efficacy: 164.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12193	12193	12193
5°	12363	9932	8735
10°	12341	9058	11265
15°	12287	11674	12297
20°	12287	12231	12340
25°	12265	12292	12405
30°	12229	12270	12428
35°	12210	12345	12489
40°	12211	12345	12522
45°	12116	12353	7677
50°	11979	12378	8182
55°	11726	7443	9273
60°	11186	7672	8491
65°	10481	9211	5195
70°	9255	6978	6369
75°	7374	6343	4417
80°	5080	4585	3795
85°	4868	4233	4015



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.7	3.0
10°-20°	2270.3	9.5
20°-30°	3735.1	15.6
30°-40°	4696.4	19.6
40°-50°	4605.9	19.2
50°-60°	3816.3	15.9
60°-70°	2691.7	11.2
70°-80°	1174.4	4.9
80°-90°	293.4	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°	6730.0	28.0
0°-40°	11426.3	47.6
0°-60°	19848.5	82.7
0°-90°	24008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9062	9062	9062	9062	9062	
5°	9153	8519	7353	6668	6467	869
15°	8821	6126	8381	8855	8828	2494
25°	8262	7559	8280	8335	8356	3808
35°	7434	7429	7516	7566	7604	4657
45°	6367	6387	6492	5750	4034	4915
55°	4999	5162	3173	3607	3953	4472
65°	3292	3486	2893	2226	1632	3237
75°	1418	1390	1220	798	850	1521
85°	315	281	274	262	260	327
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9062.2	9062.2	9062.2	9062.2	9062.2
2.5°	9137.0	8947.4	8646.1	8266.9	8132.5
5°	9153.3	8519.4	7353.4	6667.5	6467.0
7.5°	9106.7	7742.4	6410.6	6554.8	6767.2
10°	9033.0	7059.7	6629.5	7799.8	8245.2
12.5°	8938.7	6452.9	7595.0	8810.8	8899.7
15°	8820.6	6125.7	8380.6	8855.3	8828.2
17.5°	8720.9	6317.5	8662.4	8766.4	8746.9
20°	8581.1	6700.0	8542.1	8625.5	8618.0
22.5°	8440.2	7152.9	8428.3	8487.9	8487.9
25°	8261.5	7559.3	8279.9	8335.1	8355.7
27.5°	8065.3	7793.3	8094.6	8140.1	8176.9
30°	7871.4	7826.9	7897.4	7955.9	7999.2
32.5°	7666.5	7649.2	7704.5	7766.2	7821.5
35°	7433.6	7429.2	7515.9	7565.8	7603.7
37.5°	7214.7	7199.5	7279.7	7349.1	7378.3
40°	6952.4	6952.4	7028.3	7098.7	7129.1
42.5°	6653.4	6695.6	6754.1	6826.7	6148.4
45°	6367.3	6386.8	6491.9	5749.6	4034.3
47.5°	6092.1	6117.0	6216.7	3696.2	3797.0
50°	5722.6	5835.2	5913.3	3685.4	3908.6
52.5°	5452.7	5501.5	4964.0	3648.5	3774.2
55°	4998.7	5162.3	3172.8	3607.3	3953.0
57.5°	4610.8	4730.0	3119.7	3696.2	3910.8
60°	4156.7	4338.8	2851.0	3566.2	3155.5
62.5°	3721.1	3894.5	2976.7	2806.6	2672.2
65°	3292.0	3486.0	2893.2	2225.7	1631.9
67.5°	2821.7	2640.8	2308.1	1568.0	1650.3
70°	2352.5	1844.3	1773.9	1753.3	1618.9
72.5°	1870.3	1345.8	1177.9	1315.5	941.7
75°	1418.4	1390.3	1220.1	797.5	849.6
77.5°	983.9	1003.4	653.4	778.0	645.8
80°	655.6	567.8	591.7	496.3	489.8
82.5°	454.0	463.8	389.0	377.1	382.5
85°	315.3	280.7	274.2	262.2	260.1
87.5°	105.1	122.4	113.8	102.9	109.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)