

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-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-LD5-24HE-W-WG-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

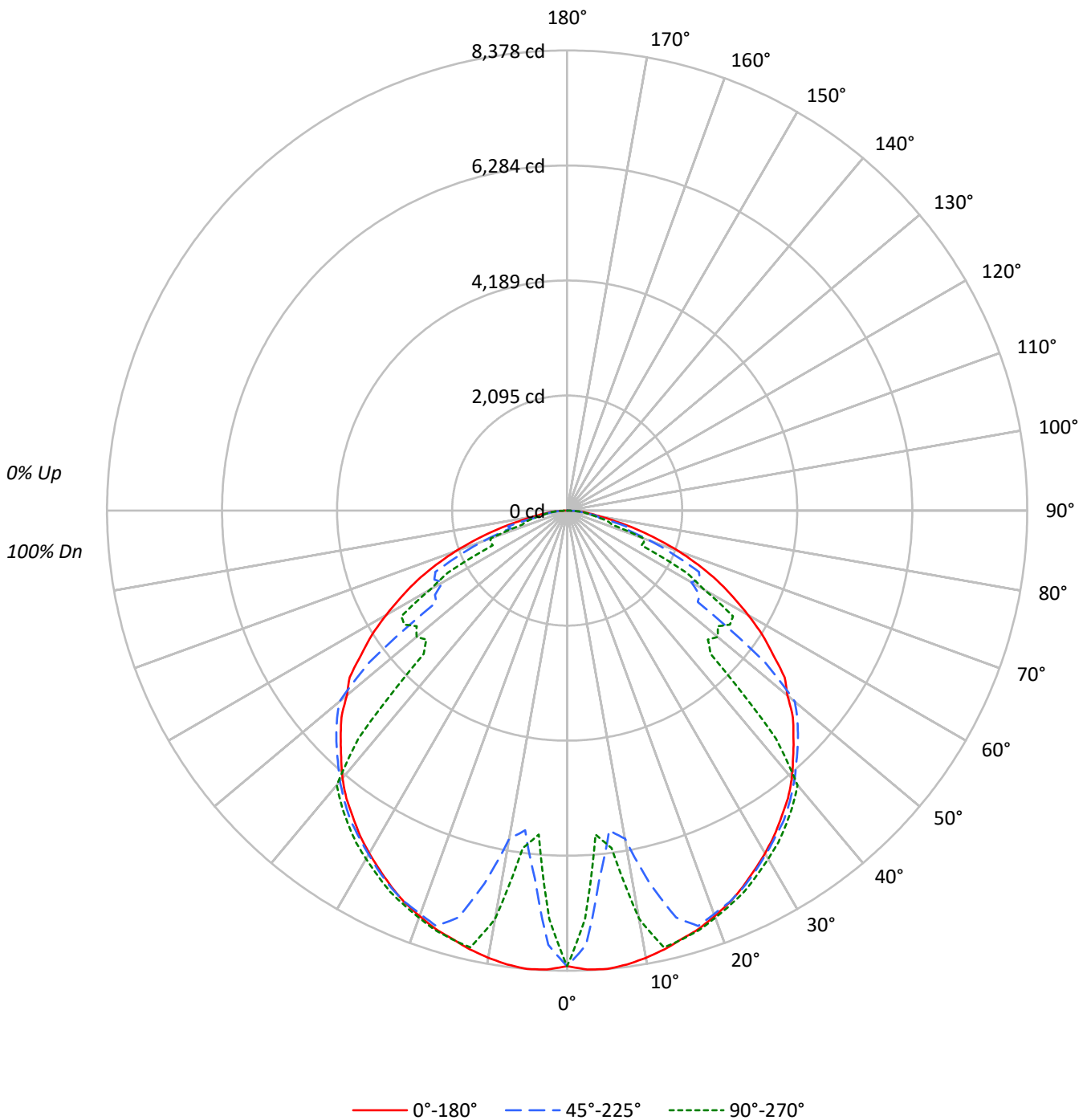
Lumens per Lamp: N/A
Luminaire Lumens: 21975.0 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	11161	11161	11161
5°	11316	9091	7995
10°	11296	8291	10311
15°	11246	10685	11256
20°	11246	11195	11295
25°	11226	11251	11354
30°	11194	11231	11375
35°	11176	11300	11432
40°	11177	11299	11461
45°	11090	11307	7027
50°	10964	11329	7489
55°	10733	6812	8488
60°	10238	7022	7772
65°	9593	8431	4755
70°	8471	6388	5829
75°	6749	5806	4042
80°	4650	4197	3474
85°	4455	3873	3674



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.3	3.0
10°-20°	2078.0	9.5
20°-30°	3418.8	15.6
30°-40°	4298.7	19.6
40°-50°	4215.9	19.2
50°-60°	3493.1	15.9
60°-70°	2463.7	11.2
70°-80°	1074.9	4.9
80°-90°	268.6	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°	6160.1	28.0
0°-40°	10458.8	47.6
0°-60°	18167.8	82.7
0°-90°	21975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21975.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8295	8295	8295	8295	8295	
5°	8378	7798	6731	6103	5919	795
15°	8074	5607	7671	8105	8081	2283
25°	7562	6919	7579	7629	7648	3486
35°	6804	6800	6880	6925	6960	4263
45°	5828	5846	5942	5263	3693	4499
55°	4575	4725	2904	3302	3618	4094
65°	3013	3191	2648	2037	1494	2963
75°	1298	1272	1117	730	778	1392
85°	289	257	251	240	238	299
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8294.8	8294.8	8294.8	8294.8	8294.8
2.5°	8363.3	8189.7	7914.0	7566.8	7443.8
5°	8378.2	7797.9	6730.7	6102.9	5919.4
7.5°	8335.5	7086.8	5867.8	5999.7	6194.1
10°	8268.1	6461.9	6068.1	7139.3	7547.0
12.5°	8181.8	5906.5	6951.9	8064.7	8146.1
15°	8073.7	5606.9	7671.0	8105.4	8080.6
17.5°	7982.4	5782.5	7928.9	8024.1	8006.2
20°	7854.5	6132.6	7818.8	7895.1	7888.2
22.5°	7725.5	6547.2	7714.6	7769.2	7769.2
25°	7561.9	6919.2	7578.7	7629.3	7648.2
27.5°	7382.3	7133.4	7409.1	7450.8	7484.5
30°	7204.8	7164.1	7228.6	7282.2	7321.8
32.5°	7017.3	7001.5	7052.1	7108.6	7159.2
35°	6804.1	6800.1	6879.5	6925.1	6959.8
37.5°	6603.7	6589.9	6663.3	6726.7	6753.5
40°	6363.7	6363.7	6433.1	6497.6	6525.4
42.5°	6090.0	6128.6	6182.2	6248.7	5627.8
45°	5828.1	5846.0	5942.2	5262.8	3692.7
47.5°	5576.2	5599.0	5690.2	3383.2	3475.4
50°	5238.0	5341.1	5412.5	3373.3	3577.6
52.5°	4991.0	5035.6	4543.7	3339.6	3454.6
55°	4575.4	4725.2	2904.1	3301.9	3618.3
57.5°	4220.3	4329.4	2855.5	3383.2	3579.6
60°	3804.7	3971.4	2609.6	3264.2	2888.3
62.5°	3406.0	3564.7	2724.6	2568.9	2445.9
65°	3013.2	3190.8	2648.2	2037.3	1493.7
67.5°	2582.8	2417.1	2112.6	1435.2	1510.6
70°	2153.3	1688.1	1623.7	1604.8	1481.8
72.5°	1711.9	1231.9	1078.1	1204.1	861.9
75°	1298.3	1272.5	1116.8	730.0	777.6
77.5°	900.6	918.5	598.1	712.1	591.1
80°	600.1	519.7	541.6	454.3	448.3
82.5°	415.6	424.5	356.1	345.2	350.1
85°	288.6	256.9	250.9	240.0	238.0
87.5°	96.2	112.1	104.1	94.2	100.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)