

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-L735-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-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

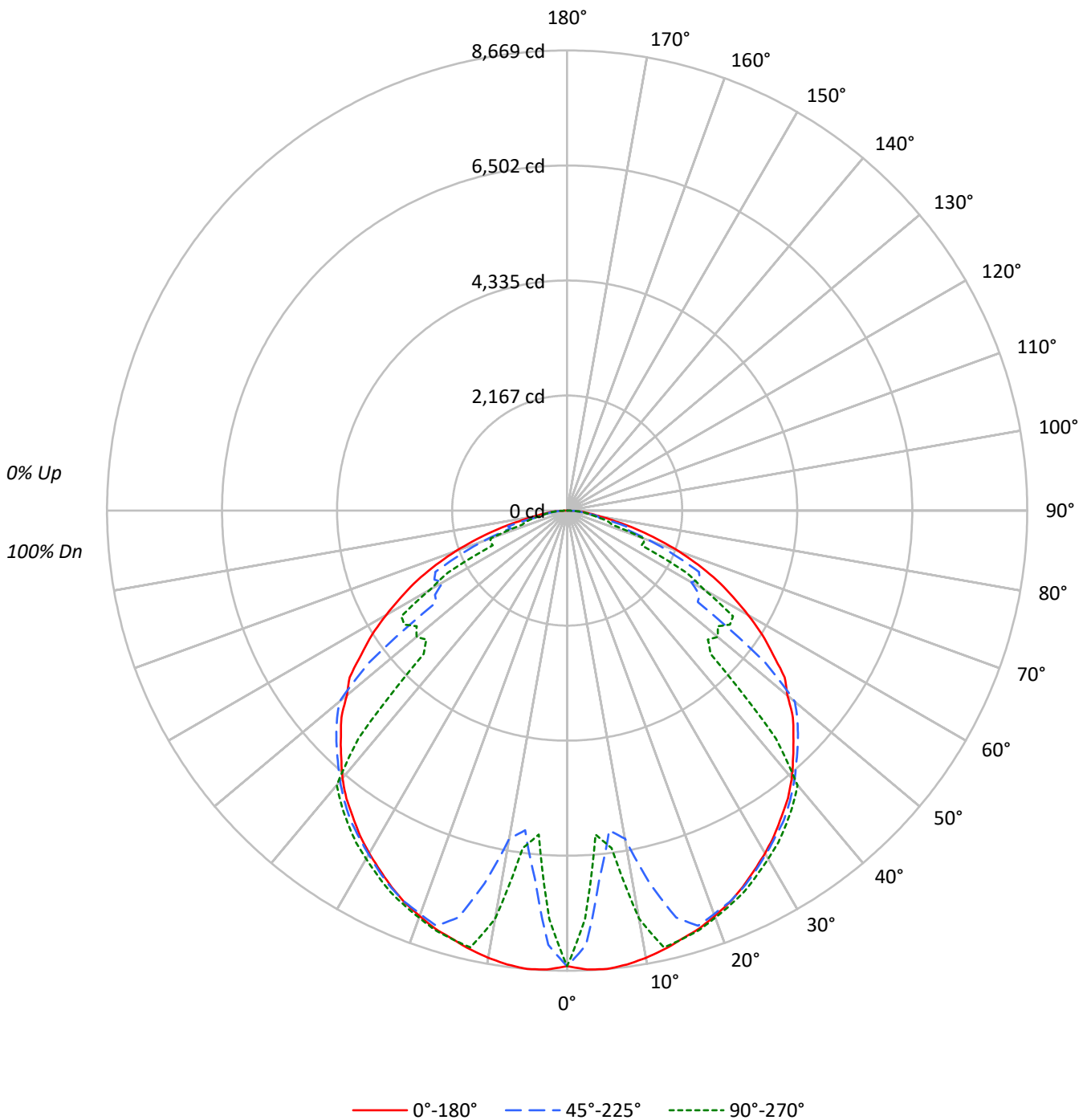
Lumens per Lamp: N/A
Luminaire Lumens: 22737.0 lumens
Efficiency: N/A
Efficacy: 155.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	11548	11548	11548
5°	11708	9406	8272
10°	11688	8578	10669
15°	11636	11056	11646
20°	11636	11583	11686
25°	11616	11641	11748
30°	11582	11620	11770
35°	11563	11692	11828
40°	11565	11691	11859
45°	11474	11699	7270
50°	11344	11722	7748
55°	11105	7049	8782
60°	10594	7266	8042
65°	9926	8724	4920
70°	8765	6609	6032
75°	6984	6007	4183
80°	4811	4341	3594
85°	4610	4008	3802



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.3	3.0
10°-20°	2150.1	9.5
20°-30°	3537.3	15.6
30°-40°	4447.7	19.6
40°-50°	4362.1	19.2
50°-60°	3614.2	15.9
60°-70°	2549.2	11.2
70°-80°	1112.2	4.9
80°-90°	277.9	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°	6373.7	28.0
0°-40°	10821.4	47.6
0°-60°	18797.8	82.7
0°-90°	22737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22737.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8582	8582	8582	8582	8582	
5°	8669	8068	6964	6314	6125	823
15°	8354	5801	7937	8386	8361	2362
25°	7824	7159	7842	7894	7913	3606
35°	7040	7036	7118	7165	7201	4411
45°	6030	6049	6148	5445	3821	4655
55°	4734	4889	3005	3416	3744	4236
65°	3118	3301	2740	2108	1546	3065
75°	1343	1317	1156	755	805	1441
85°	299	266	260	248	246	310
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8582.5	8582.5	8582.5	8582.5	8582.5
2.5°	8653.3	8473.7	8188.4	7829.2	7702.0
5°	8668.7	8068.3	6964.1	6314.5	6124.6
7.5°	8624.6	7332.5	6071.3	6207.7	6408.9
10°	8554.8	6686.0	6278.6	7386.9	7808.7
12.5°	8465.5	6111.3	7192.9	8344.4	8428.5
15°	8353.6	5801.4	7937.0	8386.5	8360.8
17.5°	8259.2	5983.0	8203.8	8302.3	8283.8
20°	8126.8	6345.3	8089.9	8168.9	8161.7
22.5°	7993.4	6774.2	7982.1	8038.6	8038.6
25°	7824.1	7159.1	7841.5	7893.9	7913.4
27.5°	7638.3	7380.7	7666.0	7709.1	7744.0
30°	7454.6	7412.6	7479.3	7534.7	7575.7
32.5°	7260.7	7244.3	7296.6	7355.1	7407.4
35°	7040.0	7035.9	7118.0	7165.2	7201.2
37.5°	6832.7	6818.4	6894.3	6960.0	6987.7
40°	6584.4	6584.4	6656.2	6722.9	6751.7
42.5°	6301.1	6341.2	6396.6	6465.3	5822.9
45°	6030.2	6048.7	6148.2	5445.3	3820.7
47.5°	5769.5	5793.1	5887.6	3500.5	3596.0
50°	5419.6	5526.3	5600.2	3490.3	3701.7
52.5°	5164.1	5210.2	4701.2	3455.4	3574.4
55°	4734.1	4889.0	3004.8	3416.4	3743.7
57.5°	4366.7	4479.6	2954.6	3500.5	3703.7
60°	3936.7	4109.1	2700.0	3377.4	2988.4
62.5°	3524.1	3688.3	2819.1	2658.0	2530.7
65°	3117.7	3301.4	2740.1	2107.9	1545.5
67.5°	2672.3	2501.0	2185.9	1485.0	1563.0
70°	2228.0	1746.7	1680.0	1660.5	1533.2
72.5°	1771.3	1274.6	1115.5	1245.9	891.8
75°	1343.4	1316.7	1155.6	755.3	804.6
77.5°	931.8	950.3	618.8	736.8	611.6
80°	620.9	537.8	560.3	470.0	463.9
82.5°	430.0	439.2	368.4	357.1	362.3
85°	298.6	265.8	259.6	248.4	246.3
87.5°	99.5	116.0	107.8	97.5	103.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)