

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: P730722

Luminaire Tested: **HBLED-LD5-24HE-W-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-UNV-L840
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24574.0 lumens
Efficiency: N/A
Efficacy: 171.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

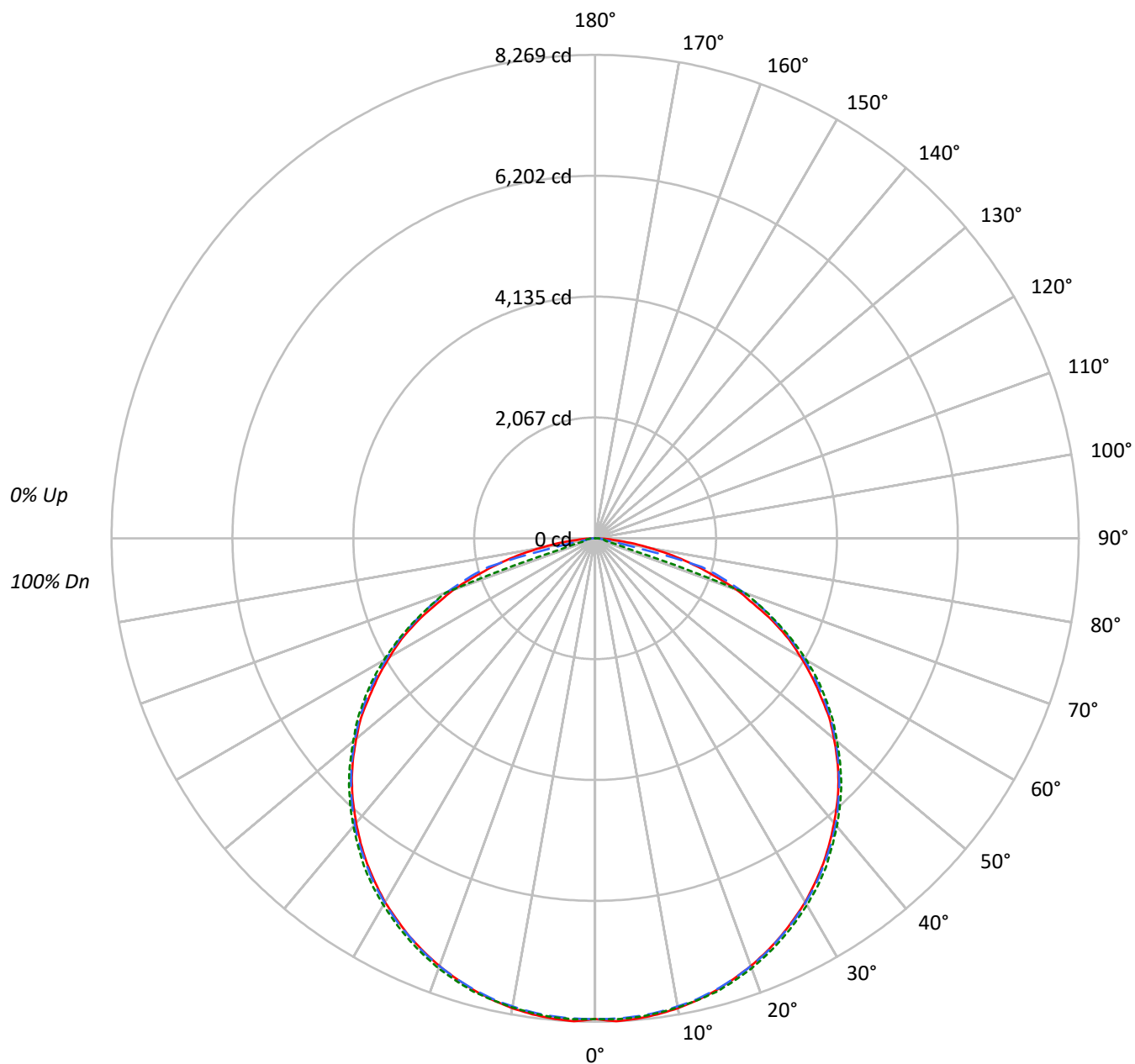
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13277	13277	13277
5°	13372	13304	13328
10°	13380	13332	13359
15°	13378	13360	13421
20°	13377	13380	13449
25°	13383	13390	13472
30°	13398	13415	13504
35°	13396	13439	13551
40°	13398	13482	13556
45°	13435	13485	13594
50°	13394	13473	13560
55°	13247	13433	13577
60°	13097	13310	13475
65°	12807	13073	13171
70°	12159	12678	12833
75°	10845	11759	1417
80°	8721	1464	1550
85°	5802	1901	1934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.0	3.2
10°-20°	2256.8	9.2
20°-30°	3467.4	14.1
30°-40°	4268.5	17.4
40°-50°	4550.6	18.5
50°-60°	4253.9	17.3
60°-70°	3367.5	13.7
70°-80°	1432.7	5.8
80°-90°	195.6	0.8
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°	6505.2	26.5
0°-40°	10773.6	43.8
0°-60°	19578.2	79.7
0°-90°	24574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8223	8223	8223	8223	8223	
5°	8251	8214	8208	8176	8223	784
15°	8003	7989	7992	7970	8029	2260
25°	7512	7503	7516	7512	7562	3464
35°	6796	6785	6818	6842	6875	4252
45°	5884	5851	5906	5930	5954	4534
55°	4706	4721	4772	4788	4823	4214
65°	3352	3382	3422	3448	3448	3298
75°	1738	1814	1885	308	227	1839
85°	313	93	103	106	104	408
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8223.2	8223.2	8223.2	8223.2	8223.2
2.5°	8269.0	8230.5	8223.2	8190.2	8234.2
5°	8250.6	8214.0	8208.5	8175.5	8223.2
7.5°	8212.2	8182.9	8179.2	8144.4	8192.0
10°	8160.9	8133.4	8131.6	8100.4	8148.1
12.5°	8091.3	8067.5	8074.8	8043.6	8091.3
15°	8003.3	7988.7	7992.4	7970.4	8029.0
17.5°	7897.1	7889.8	7897.1	7880.6	7933.7
20°	7785.4	7776.2	7787.2	7778.0	7827.5
22.5°	7655.3	7644.3	7666.3	7653.5	7699.3
25°	7512.4	7503.2	7516.1	7512.4	7561.9
27.5°	7349.4	7340.2	7367.7	7369.5	7408.0
30°	7186.3	7173.5	7195.5	7204.7	7243.1
32.5°	6992.2	6988.5	7021.5	7028.8	7069.1
35°	6796.2	6785.2	6818.1	6842.0	6874.9
37.5°	6581.8	6580.0	6614.8	6635.0	6651.4
40°	6356.5	6347.4	6396.8	6417.0	6431.6
42.5°	6127.5	6107.4	6155.0	6180.7	6197.1
45°	5883.9	5850.9	5905.9	5929.7	5953.5
47.5°	5616.4	5587.1	5640.3	5665.9	5682.4
50°	5332.5	5305.0	5363.6	5385.6	5398.5
52.5°	5046.7	5019.3	5081.5	5099.9	5131.0
55°	4706.0	4720.7	4772.0	4788.4	4823.3
57.5°	4390.9	4403.8	4453.2	4473.4	4513.7
60°	4055.7	4075.9	4121.7	4141.8	4172.9
62.5°	3731.5	3733.3	3788.3	3797.4	3821.2
65°	3352.3	3381.6	3421.9	3447.5	3447.5
67.5°	2929.1	3000.6	3070.2	3064.7	3079.3
70°	2575.6	2603.1	2685.5	2698.3	2718.5
72.5°	2132.3	2203.7	2295.3	1714.6	582.5
75°	1738.4	1813.5	1885.0	307.8	227.1
77.5°	1350.1	1408.7	626.5	175.9	172.2
80°	937.9	1031.3	157.5	161.2	166.7
82.5°	617.3	503.8	130.1	142.9	144.7
85°	313.2	93.4	102.6	106.2	104.4
87.5°	102.6	56.8	58.6	60.5	62.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)