

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: P730726

Luminaire Tested: **HBLED-LD5-24HE-W-WG-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-WG-UNV-L750
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24967.0 lumens
Efficiency: N/A
Efficacy: 174.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

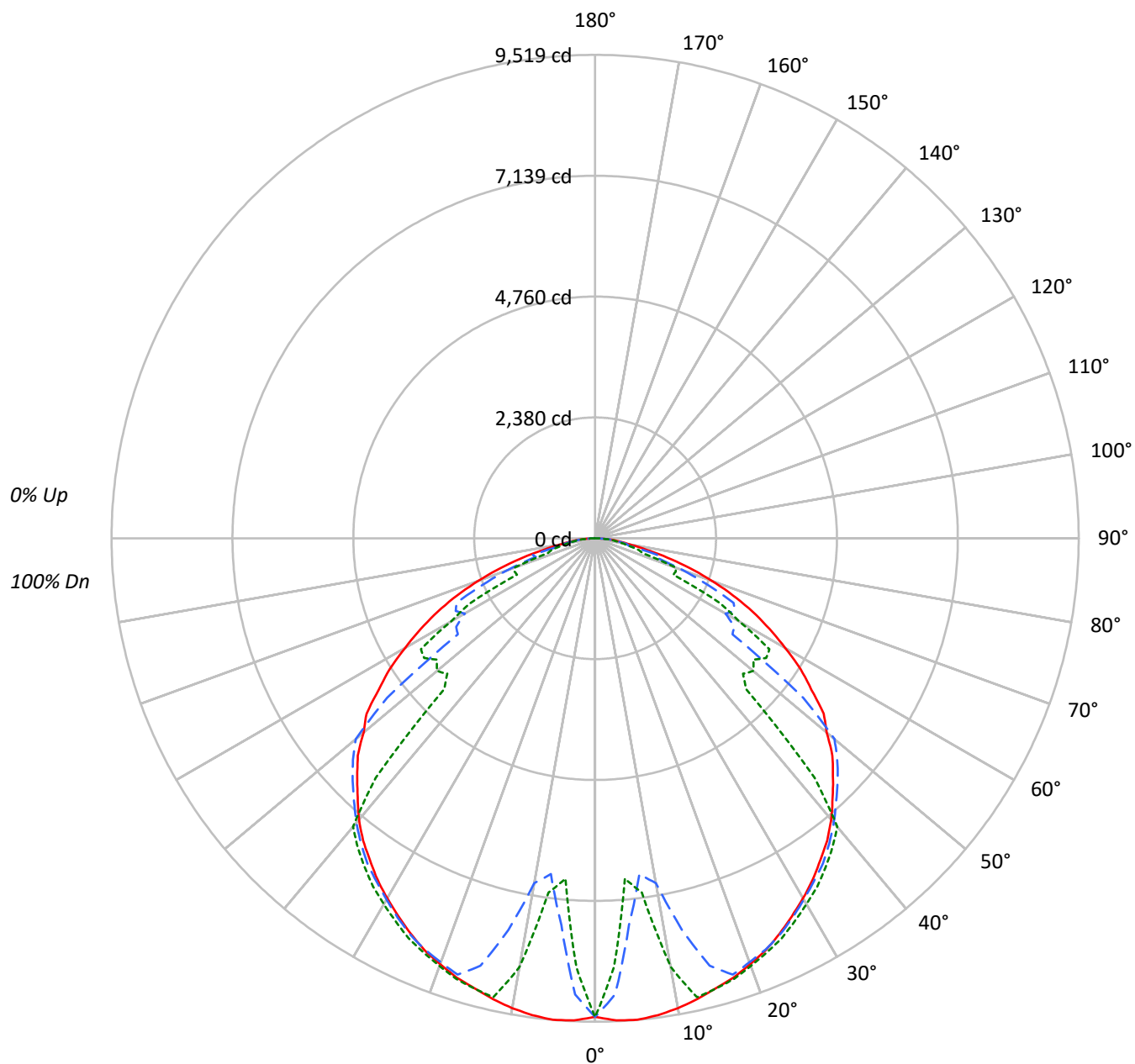
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	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
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15216	15216	15216
5°	15428	12394	10900
10°	15401	11303	14058
15°	15333	14568	15346
20°	15333	15263	15399
25°	15306	15340	15480
30°	15261	15312	15509
35°	15237	15406	15586
40°	15239	15405	15626
45°	15120	15415	9580
50°	14948	15447	10210
55°	14633	9288	11572
60°	13959	9574	10597
65°	13079	11495	6484
70°	11549	8709	7948
75°	9203	7916	5512
80°	6339	5721	4736
85°	6074	5282	5011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.6	3.0
10°-20°	2361.0	9.5
20°-30°	3884.3	15.6
30°-40°	4883.9	19.6
40°-50°	4789.9	19.2
50°-60°	3968.7	15.9
60°-70°	2799.2	11.2
70°-80°	1221.3	4.9
80°-90°	305.1	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°	6998.8	28.0
0°-40°	11882.8	47.6
0°-60°	20641.4	82.7
0°-90°	24967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9424	9424	9424	9424	9424	
5°	9519	8860	7647	6934	6725	904
15°	9173	6370	8715	9209	9181	2594
25°	8592	7861	8611	8668	8690	3960
35°	7730	7726	7816	7868	7908	4843
45°	6622	6642	6751	5979	4195	5111
55°	5198	5368	3300	3752	4111	4651
65°	3424	3625	3009	2315	1697	3366
75°	1475	1446	1269	829	884	1582
85°	328	292	285	273	270	340
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9424.2	9424.2	9424.2	9424.2	9424.2
2.5°	9502.0	9304.8	8991.5	8597.1	8457.4
5°	9518.9	8859.6	7647.1	6933.8	6725.3
7.5°	9470.5	8051.7	6666.8	6816.5	7037.5
10°	9393.8	7341.7	6894.4	8111.4	8574.6
12.5°	9295.8	6710.7	7898.4	9162.8	9255.1
15°	9172.9	6370.4	8715.4	9209.0	9180.8
17.5°	9069.2	6569.8	9008.4	9116.6	9096.3
20°	8923.9	6967.6	8883.3	8970.1	8962.2
22.5°	8777.4	7438.6	8765.0	8827.0	8827.0
25°	8591.5	7861.2	8610.6	8668.1	8689.5
27.5°	8387.4	8104.6	8417.9	8465.2	8503.5
30°	8185.7	8139.6	8212.8	8273.7	8318.7
32.5°	7972.8	7954.8	8012.2	8076.5	8133.9
35°	7730.5	7726.0	7816.1	7867.9	7907.5
37.5°	7502.8	7487.1	7570.5	7642.6	7673.0
40°	7230.2	7230.2	7309.0	7382.3	7413.9
42.5°	6919.1	6963.1	7024.0	7099.4	6394.0
45°	6621.6	6641.9	6751.2	5979.4	4195.4
47.5°	6335.4	6361.3	6465.0	3843.8	3948.7
50°	5951.1	6068.3	6149.5	3832.6	4064.8
52.5°	5670.6	5721.2	5162.3	3794.3	3925.0
55°	5198.4	5368.5	3299.5	3751.5	4110.9
57.5°	4795.0	4918.9	3244.4	3843.8	4066.9
60°	4322.8	4512.1	2964.8	3708.6	3281.5
62.5°	3869.7	4050.0	3095.6	2918.7	2778.9
65°	3423.5	3625.2	3008.8	2314.6	1697.1
67.5°	2934.4	2746.3	2400.3	1630.6	1716.3
70°	2446.5	1918.0	1844.8	1823.4	1683.6
72.5°	1945.0	1399.6	1224.9	1368.1	979.3
75°	1475.2	1445.8	1268.9	829.4	883.5
77.5°	1023.2	1043.5	679.5	809.1	671.6
80°	681.8	590.5	615.3	516.1	509.4
82.5°	472.2	482.3	404.5	392.1	397.8
85°	327.9	291.9	285.1	272.8	270.5
87.5°	109.3	127.4	118.4	107.1	113.9
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)