

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: P730677

Luminaire Tested: **HBLED-LD5-24HE-N-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-N-UNV-L740
Description: 24000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24792.0 lumens
Efficiency: N/A
Efficacy: 173.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

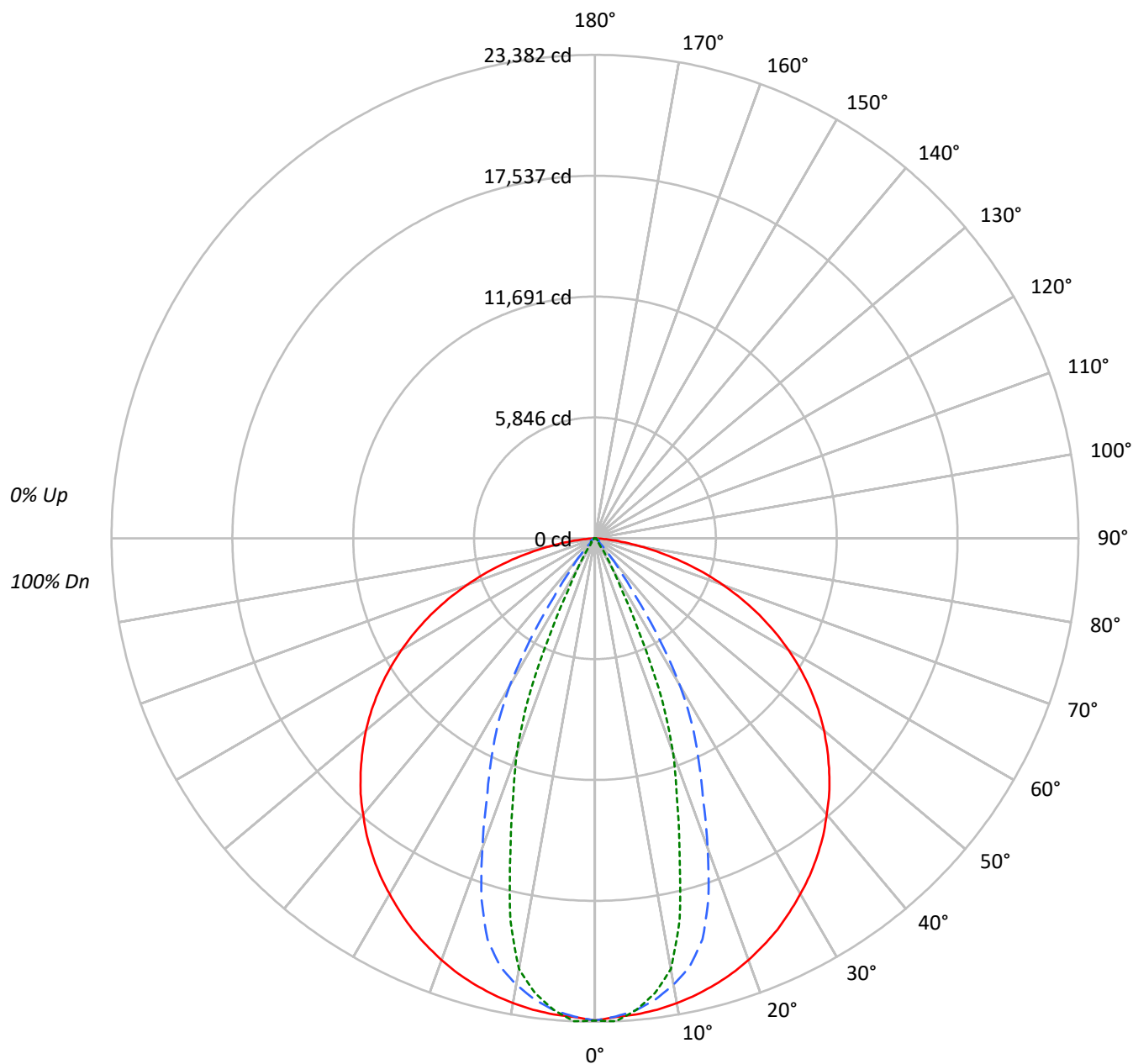
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37661	37661	37661
5°	37460	37129	37113
10°	37436	35939	34678
15°	37383	33575	26392
20°	37296	27371	18997
25°	37201	21164	9358
30°	37037	15381	3035
35°	36949	6824	781
40°	36756	2771	526
45°	36591	778	560
50°	36306	552	622
55°	35783	656	266
60°	34900	731	161
65°	33464	466	191
70°	31089	414	236
75°	27197	312	325
80°	20335	382	465
85°	10072	493	615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2164.6	8.7
10°-20°	5412.7	21.8
20°-30°	5862.7	23.6
30°-40°	4341.6	17.5
40°-50°	3127.1	12.6
50°-60°	1936.3	7.8
60°-70°	1190.8	4.8
70°-80°	627.7	2.5
80°-90°	128.5	0.5
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°	13440.0	54.2
0°-40°	17781.7	71.7
0°-60°	22845.0	92.1
0°-90°	24792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24792.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23325	23325	23325	23325	23325	
5°	23112	23198	22908	22925	22898	###
15°	22364	21845	20086	17082	15789	6313
25°	20882	19128	11880	7473	5253	9622
35°	18746	13216	3462	814	396	11728
45°	16025	7446	341	246	245	12359
55°	12712	1534	233	211	94	11348
65°	8759	162	122	78	50	8642
75°	4360	38	50	66	52	4605
85°	544	14	27	40	33	822
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23325.4	23325.4	23325.4	23325.4	23325.4
2.5°	23175.6	23323.3	23149.0	23278.9	23382.0
5°	23112.4	23197.8	22908.2	22924.8	22898.3
7.5°	23001.4	22981.5	22494.3	22281.3	22188.1
10°	22833.9	22701.8	21920.7	21475.7	21151.7
12.5°	22617.5	22322.4	21205.0	19790.2	18911.4
15°	22364.5	21845.2	20086.4	17081.6	15788.9
17.5°	22062.7	21327.0	18257.8	14316.4	13162.4
20°	21706.5	20748.9	15929.7	12180.4	11056.4
22.5°	21309.2	20045.4	13668.4	10123.1	8519.7
25°	20882.0	19127.8	11879.6	7473.3	5252.9
27.5°	20388.3	17948.2	10201.9	4401.9	2680.9
30°	19865.7	16527.8	8250.0	2367.9	1627.9
32.5°	19338.6	14917.8	5837.7	1479.1	923.2
35°	18746.1	13215.6	3462.0	814.5	396.2
37.5°	18127.9	11655.5	2046.1	370.7	254.1
40°	17438.9	10229.7	1314.9	246.3	249.6
42.5°	16773.2	8900.3	740.2	243.0	247.5
45°	16025.2	7445.5	340.6	246.3	245.2
47.5°	15251.8	5937.6	220.8	248.5	248.5
50°	14454.0	4245.5	219.7	254.1	247.5
52.5°	13611.8	2648.7	228.6	253.0	203.1
55°	12711.9	1533.5	233.0	210.8	94.4
57.5°	11779.8	904.3	235.2	120.9	53.3
60°	10807.7	500.4	226.3	89.9	50.0
62.5°	9805.7	238.6	178.6	84.4	48.8
65°	8759.3	162.0	122.0	77.6	50.0
67.5°	7673.1	125.3	96.5	73.2	51.0
70°	6585.6	93.2	87.7	73.2	50.0
72.5°	5480.5	63.3	73.2	74.3	50.0
75°	4359.7	37.7	50.0	65.5	52.1
77.5°	3249.0	23.3	38.8	67.7	63.3
80°	2187.0	19.9	41.1	63.3	50.0
82.5°	1283.9	17.8	40.0	48.8	40.0
85°	543.7	14.5	26.6	40.0	33.2
87.5°	102.1	12.2	21.1	32.2	28.8
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)