

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: P730663

Luminaire Tested: **HBLED-LD5-24HE-N-CL-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-N-CL-UNV-L850
Description: 24000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22600.0 lumens
Efficiency: N/A
Efficacy: 158.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

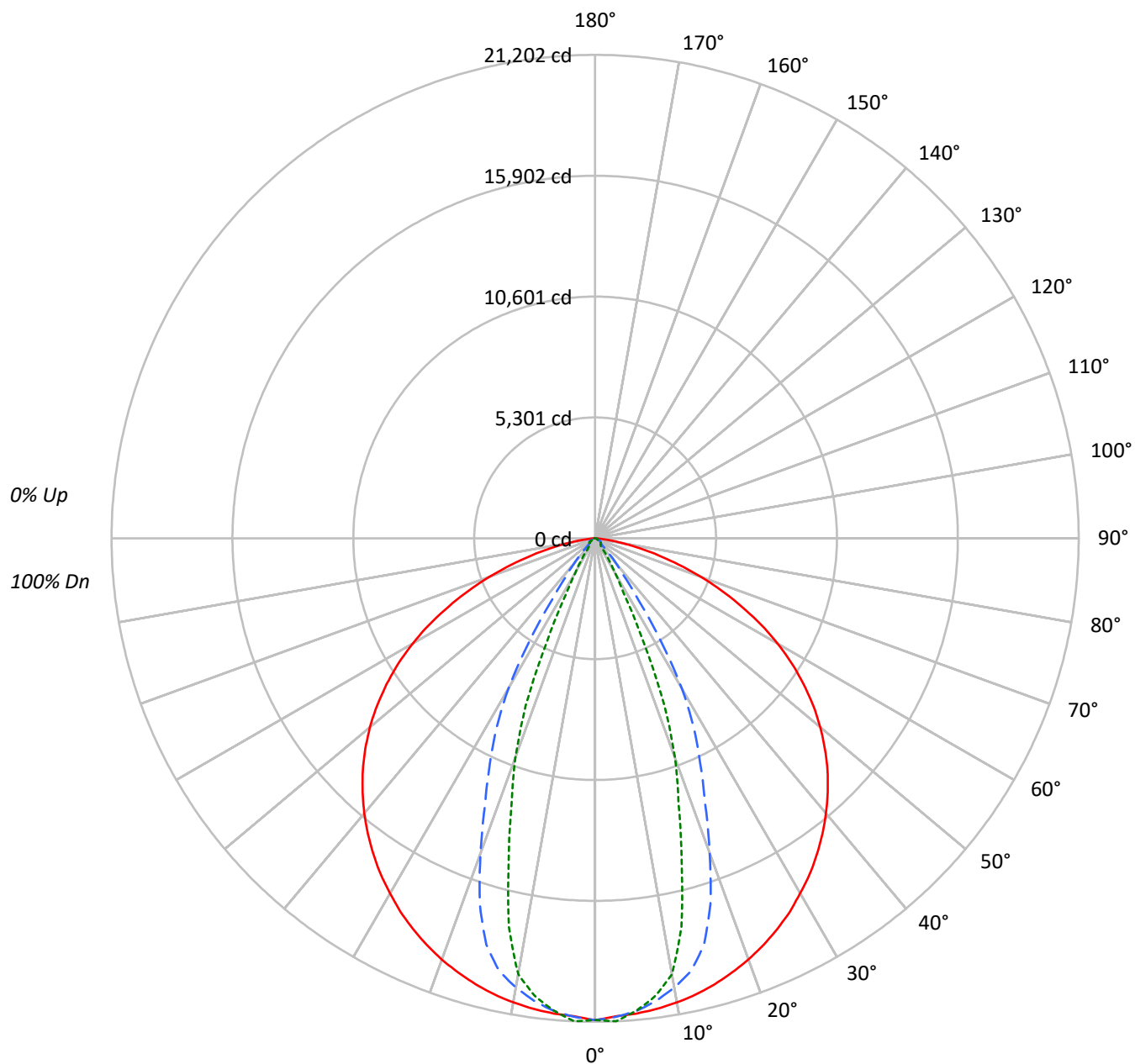
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	105	103	109	106	104	101	102	100	98		98	97	95		95
2	105	99	94	90	102	97	92	89	94	90	87		91	87	85		88
3	98	90	84	79	96	89	83	79	86	81	77		83	79	76		81
4	92	83	76	71	90	82	75	71	79	74	70		77	73	69		75
5	86	76	69	64	85	75	69	64	73	68	63		72	67	63		70
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65
7	77	66	59	54	75	65	58	54	64	58	53		62	57	53		61
8	72	61	55	50	71	61	54	50	60	54	49		59	53	49		58
9	69	58	51	46	67	57	51	46	56	50	46		55	50	46		54
10	65	54	48	43	64	54	47	43	53	47	43		52	47	43		51

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34119	34119	34119
5°	33909	33732	33708
10°	33886	32800	31832
15°	33847	30843	24475
20°	33782	25240	17556
25°	33676	19447	8921
30°	33516	14193	3246
35°	33396	6518	1130
40°	33191	2958	780
45°	32896	1104	790
50°	32371	801	831
55°	31413	843	633
60°	29852	901	559
65°	27072	686	454
70°	23211	495	419
75°	17741	439	399
80°	11100	412	432
85°	3507	482	582



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1967.3	8.7
10°-20°	4955.9	21.9
20°-30°	5397.2	23.9
30°-40°	4037.4	17.9
40°-50°	2903.0	12.8
50°-60°	1782.9	7.9
60°-70°	1025.9	4.5
70°-80°	457.9	2.0
80°-90°	72.6	0.3
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°	12320.4	54.5
0°-40°	16357.8	72.4
0°-60°	21043.6	93.1
0°-90°	22600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21132	21132	21132	21132	21132	
5°	20922	21020	20813	20832	20798	###
15°	20249	19861	18452	15847	14642	5716
25°	18903	17547	10916	7004	5008	8714
35°	16944	12152	3307	972	573	10599
45°	14407	6828	483	358	346	11098
55°	11160	1419	300	290	225	9949
65°	7086	156	180	149	119	7014
75°	2844	94	70	72	64	3086
85°	189	18	26	34	31	377
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21131.5	21131.5	21131.5	21131.5	21131.5
2.5°	20984.5	21121.8	21006.1	21109.9	21201.9
5°	20921.8	21020.2	20812.6	20832.0	20797.5
7.5°	20813.7	20837.4	20462.3	20317.4	20247.0
10°	20668.7	20605.0	20005.9	19661.0	19415.5
12.5°	20486.1	20275.2	19438.2	18206.5	17472.4
15°	20249.2	19861.0	18452.0	15847.1	14642.4
17.5°	19967.0	19428.5	16819.2	13207.5	12165.1
20°	19661.0	18950.5	14690.0	11229.8	10217.6
22.5°	19299.8	18339.6	12590.0	9339.5	7950.1
25°	18902.9	17547.0	10916.2	7003.9	5007.7
27.5°	18474.8	16501.3	9366.6	4295.1	2707.7
30°	17977.3	15228.5	7612.7	2410.3	1741.0
32.5°	17491.8	13745.0	5438.1	1605.7	1112.7
35°	16943.5	12152.2	3306.7	972.1	573.1
37.5°	16362.8	10704.2	2069.7	528.7	395.7
40°	15747.6	9330.9	1403.6	375.3	369.9
42.5°	15090.1	8088.4	879.1	356.8	368.7
45°	14406.7	6827.6	483.4	358.0	346.1
47.5°	13665.0	5458.7	337.4	338.4	337.4
50°	12887.5	3915.5	319.0	334.2	330.9
52.5°	12049.4	2430.9	320.1	326.6	293.1
55°	11159.5	1418.7	299.5	289.8	224.9
57.5°	10224.0	884.5	293.1	239.0	202.2
60°	9244.4	467.2	279.0	215.2	173.0
62.5°	8200.9	230.4	223.8	183.8	141.7
65°	7086.0	155.8	179.6	149.2	118.9
67.5°	6009.0	140.5	135.2	122.2	103.8
70°	4916.9	128.6	104.9	107.0	88.7
72.5°	3845.3	116.7	84.3	91.9	74.6
75°	2843.9	94.1	70.3	72.4	63.9
77.5°	1978.8	73.6	55.2	61.7	59.5
80°	1193.8	46.5	44.3	50.8	46.5
82.5°	578.5	30.3	34.6	40.0	36.7
85°	189.3	18.4	26.0	33.5	31.4
87.5°	23.8	10.9	21.6	29.2	27.0
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)