

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: P730662

Luminaire Tested: **HBLED-LD5-24HE-N-CL-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730662
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-L840
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: 22166.0 lumens
Efficiency: N/A
Efficacy: 155.0 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

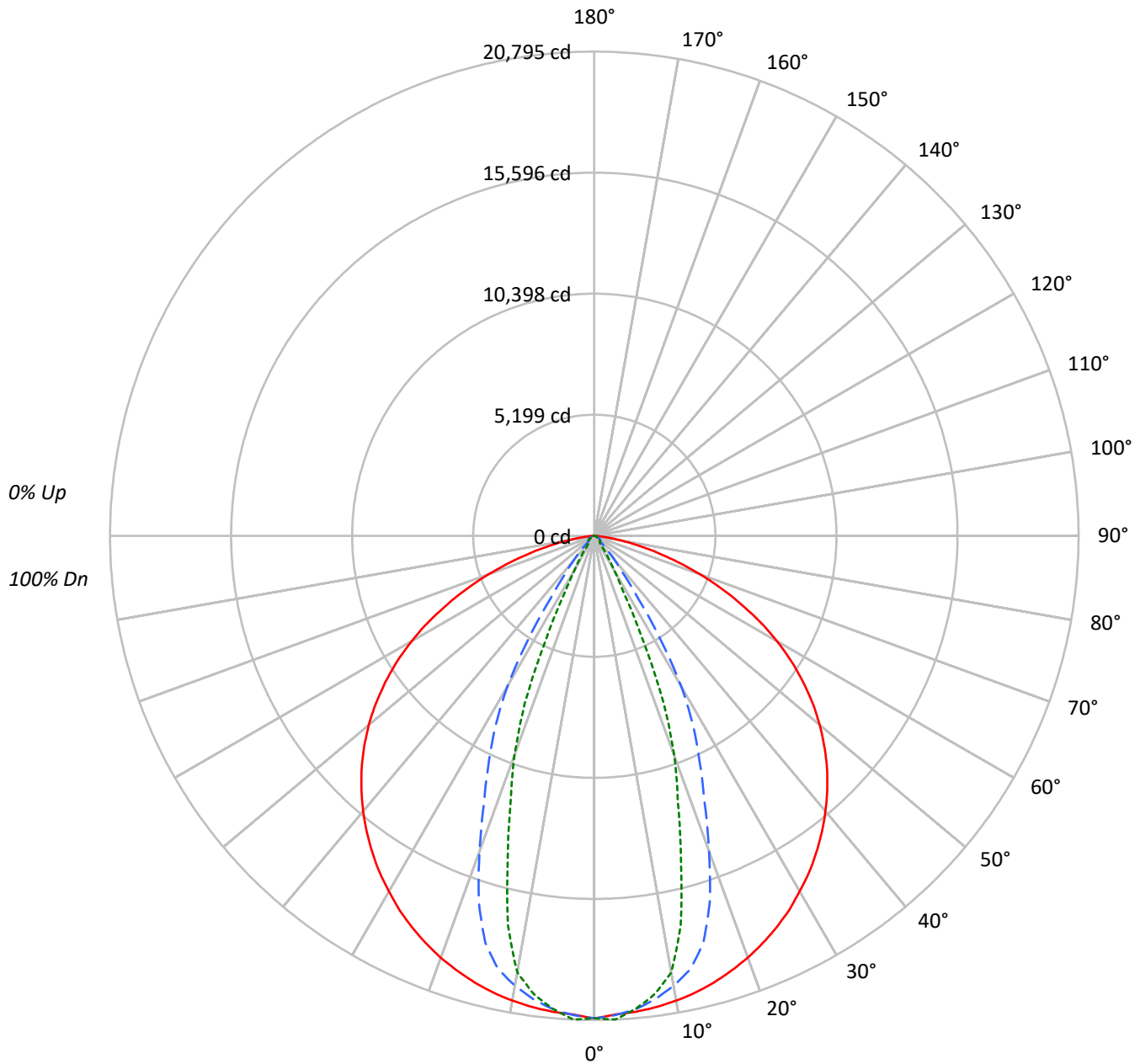
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90		
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66		
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51		
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33463	33463	33463
5°	33258	33084	33060
10°	33236	32170	31220
15°	33198	30251	24005
20°	33133	24756	17219
25°	33029	19074	8750
30°	32873	13920	3183
35°	32755	6392	1108
40°	32554	2901	764
45°	32264	1083	775
50°	31750	786	815
55°	30810	827	621
60°	29279	884	548
65°	26552	673	446
70°	22765	485	411
75°	17400	430	391
80°	10887	404	424
85°	3438	472	571



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1929.6	8.7
10°-20°	4860.7	21.9
20°-30°	5293.5	23.9
30°-40°	3959.8	17.9
40°-50°	2847.2	12.8
50°-60°	1748.6	7.9
60°-70°	1006.2	4.5
70°-80°	449.1	2.0
80°-90°	71.2	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°	12083.8	54.5
0°-40°	16043.6	72.4
0°-60°	20639.5	93.1
0°-90°	22166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20726	20726	20726	20726	20726	
5°	20520	20617	20413	20432	20398	###
15°	19860	19480	18098	15543	14361	5606
25°	18540	17210	10706	6869	4912	8546
35°	16618	11919	3243	954	562	10395
45°	14130	6696	474	351	339	10885
55°	10945	1391	294	284	221	9758
65°	6950	153	176	146	117	6880
75°	2789	92	69	71	63	3027
85°	186	18	26	33	31	370
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20725.7	20725.7	20725.7	20725.7	20725.7
2.5°	20581.6	20716.2	20602.7	20704.6	20794.7
5°	20520.1	20616.6	20412.9	20432.0	20398.1
7.5°	20414.0	20437.3	20069.3	19927.2	19858.2
10°	20271.8	20209.3	19621.7	19283.5	19042.7
12.5°	20092.7	19885.8	19064.9	17856.9	17136.8
15°	19860.4	19479.6	18097.7	15542.8	14361.2
17.5°	19583.6	19055.4	16496.2	12953.8	11931.5
20°	19283.5	18586.6	14407.9	11014.1	10021.4
22.5°	18929.2	17987.4	12348.3	9160.2	7797.4
25°	18539.9	17210.0	10706.5	6869.4	4911.6
27.5°	18120.0	16184.4	9186.7	4212.6	2655.7
30°	17632.1	14936.1	7466.5	2364.1	1707.5
32.5°	17155.9	13481.0	5333.7	1574.9	1091.3
35°	16618.2	11918.8	3243.2	953.5	562.1
37.5°	16048.6	10498.6	2030.0	518.6	388.1
40°	15445.2	9151.7	1376.6	368.1	362.7
42.5°	14800.3	7933.1	862.2	350.0	361.6
45°	14130.1	6696.5	474.1	351.1	339.4
47.5°	13402.5	5353.8	330.9	331.9	330.9
50°	12640.0	3840.3	312.9	327.8	324.6
52.5°	11818.0	2384.2	313.9	320.3	287.4
55°	10945.2	1391.4	293.8	284.3	220.6
57.5°	10027.7	867.5	287.4	234.4	198.3
60°	9066.9	458.2	273.6	211.1	169.7
62.5°	8043.4	225.9	219.5	180.3	139.0
65°	6949.9	152.8	176.1	146.3	116.7
67.5°	5893.6	137.8	132.6	119.8	101.8
70°	4822.4	126.2	102.8	105.0	87.0
72.5°	3771.5	114.5	82.7	90.1	73.2
75°	2789.3	92.3	69.0	71.0	62.6
77.5°	1940.8	72.1	54.1	60.5	58.3
80°	1170.9	45.6	43.5	49.8	45.6
82.5°	567.4	29.7	34.0	39.2	36.0
85°	185.6	18.0	25.5	32.8	30.8
87.5°	23.3	10.6	21.2	28.7	26.5
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)