

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: P730673

Luminaire Tested: **HBLED-LD5-24HE-N-CLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-N-CLI-UNV-L835
Description: 24000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21282.0 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

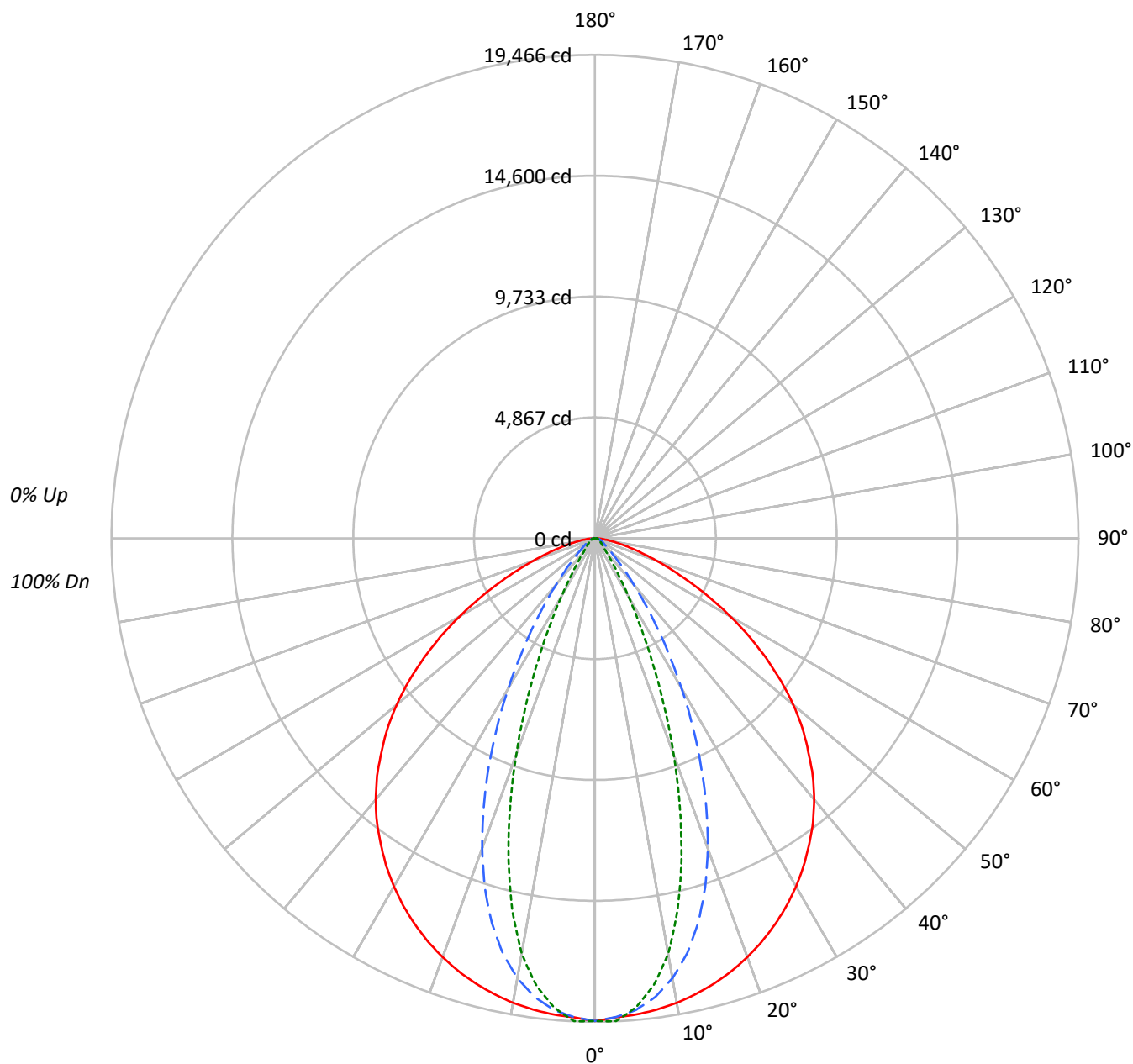
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730673

CATALOG NUMBER: HBLED-LD5-24HE-N-CLI-UNV-L835

Luminous Intensity Polar Plot





TEST NUMBER: P730673

CATALOG NUMBER: HBLED-LD5-24HE-N-CLI-UNV-L835

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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31387	31387	31387
5°	31198	30888	30725
10°	31146	29489	27827
15°	31021	26805	22473
20°	30834	22809	15928
25°	30558	17985	9624
30°	30187	12980	4946
35°	29642	8486	2470
40°	28939	5097	1441
45°	27737	3044	1078
50°	26161	1991	905
55°	23677	1510	790
60°	20347	1286	721
65°	16367	1174	680
70°	12330	1257	677
75°	9070	1195	696
80°	6635	1190	762
85°	4970	1443	986



TEST NUMBER: P730673

CATALOG NUMBER: HBLED-LD5-24HE-N-CLI-UNV-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1790.3	8.4
10°-20°	4453.8	20.9
20°-30°	4933.3	23.2
30°-40°	3952.4	18.6
40°-50°	2821.5	13.3
50°-60°	1812.3	8.5
60°-70°	982.1	4.6
70°-80°	419.8	2.0
80°-90°	116.4	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°	11177.4	52.5
0°-40°	15129.8	71.1
0°-60°	19763.7	92.9
0°-90°	21282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21282.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19440	19440	19440	19440	19440	
5°	19249	19321	19058	18997	18957	###
15°	18558	17978	16036	14172	13445	5236
25°	17153	15125	10096	6578	5402	7902
35°	15039	10878	4305	1736	1253	9403
45°	12147	6280	1333	567	472	9363
55°	8411	2808	536	330	281	7496
65°	4284	1153	307	212	178	4290
75°	1454	422	192	133	112	1615
85°	268	112	78	64	53	328
90°	0	0	0	0	0	



TEST NUMBER: P730673

CATALOG NUMBER: HBLED-LD5-24HE-N-CLI-UNV-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19439.5	19439.5	19439.5	19439.5	19439.5
2.5°	19311.6	19432.4	19302.3	19383.2	19466.1
5°	19249.1	19320.8	19057.6	18997.2	18957.3
7.5°	19140.5	19120.1	18625.6	18305.1	18150.4
10°	18997.2	18831.3	17986.6	17282.2	16973.0
12.5°	18792.5	18450.5	17121.4	15884.6	15360.4
15°	18558.0	17977.5	16036.1	14171.7	13444.7
17.5°	18277.4	17424.5	14738.9	12334.8	11375.4
20°	17945.7	16757.0	13274.8	10383.3	9270.3
22.5°	17575.1	15987.0	11707.1	8437.8	7244.1
25°	17153.2	15124.9	10095.6	6577.5	5402.0
27.5°	16697.6	14167.6	8493.2	4914.7	3842.6
30°	16191.8	13131.4	6962.4	3543.7	2652.9
32.5°	15639.9	12029.7	5540.3	2492.1	1814.4
35°	15038.9	10877.8	4305.4	1736.5	1253.2
37.5°	14423.5	9702.4	3251.9	1227.6	899.0
40°	13730.3	8531.0	2418.5	899.0	683.9
42.5°	12986.0	7382.2	1789.8	692.1	553.9
45°	12147.4	6279.5	1333.1	567.3	472.1
47.5°	11334.5	5251.6	1012.6	483.3	410.6
50°	10415.0	4323.9	792.5	421.9	360.4
52.5°	9439.3	3507.9	643.0	371.7	317.4
55°	8411.2	2807.5	536.5	329.7	280.6
57.5°	7370.0	2223.8	458.7	293.8	249.9
60°	6301.0	1778.5	398.3	263.1	223.2
62.5°	5257.7	1422.2	348.1	236.5	199.7
65°	4284.0	1152.8	307.2	212.0	178.1
67.5°	3383.9	911.3	286.7	190.4	160.8
70°	2611.9	709.5	266.2	170.0	143.4
72.5°	1979.1	544.8	235.5	151.5	127.0
75°	1453.9	421.9	191.5	133.1	111.6
77.5°	1040.3	324.6	155.6	115.7	96.3
80°	713.6	241.7	128.0	99.3	82.0
82.5°	463.9	171.0	103.4	82.0	67.5
85°	268.3	111.6	77.9	64.5	53.2
87.5°	115.7	61.4	53.2	48.1	40.9
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)