

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: P730685

Luminaire Tested: **HBLED-LD5-24HE-W-A-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23761)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-A-UNV-L835
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20995.0 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

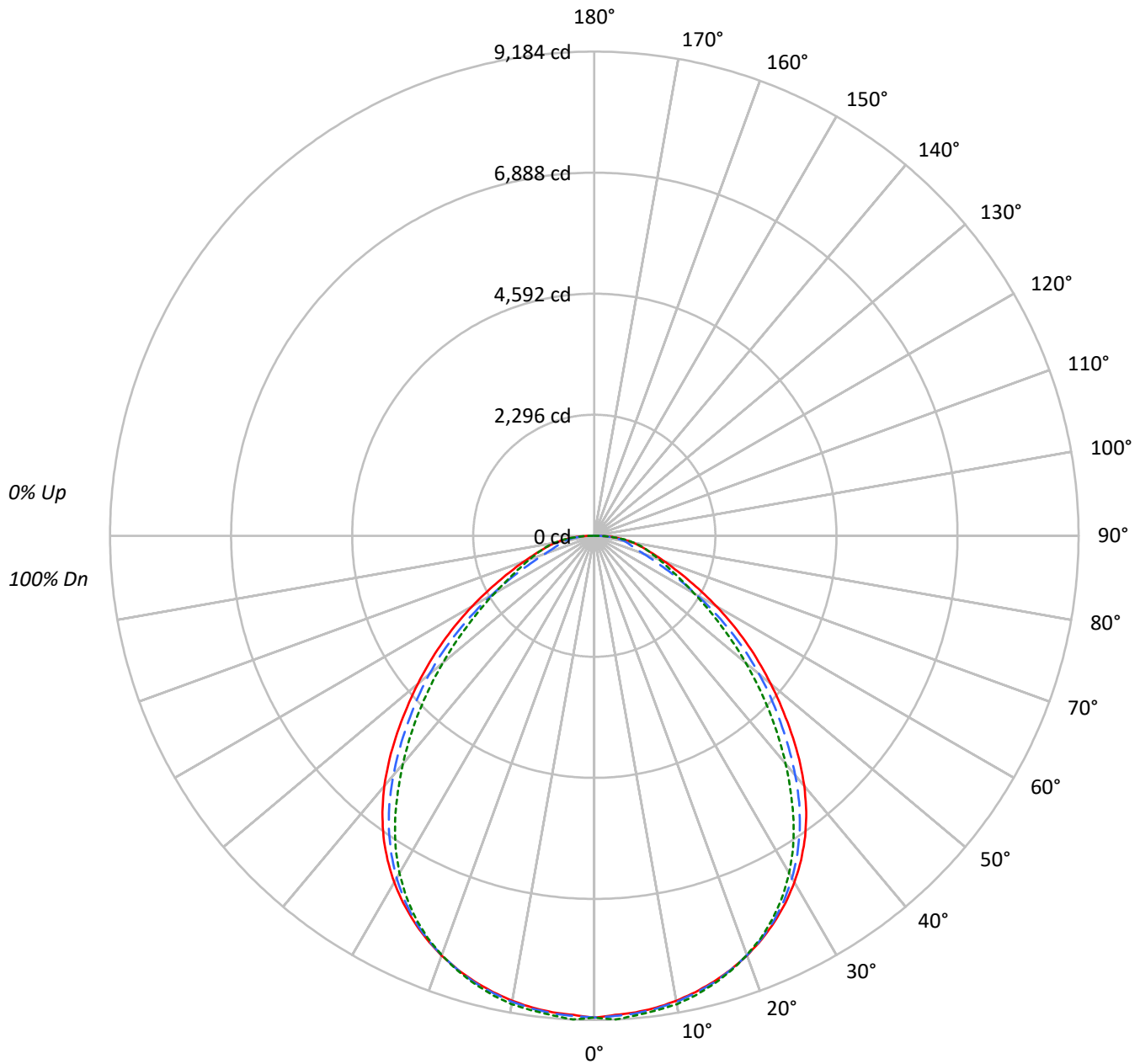
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730685

CATALOG NUMBER: HBLED-LD5-24HE-W-A-UNV-L835

Luminous Intensity Polar Plot





TEST NUMBER: P730685

CATALOG NUMBER: HBLED-LD5-24HE-W-A-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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63		
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55		
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43		
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35		
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14756	14756	14756
5°	14704	14738	14798
10°	14683	14717	14792
15°	14634	14664	14698
20°	14558	14547	14537
25°	14400	14350	14269
30°	14151	13980	13776
35°	13740	13394	12982
40°	13057	12496	11896
45°	12062	11389	10699
50°	10965	10255	9411
55°	9859	8879	8136
60°	8627	7256	7060
65°	7439	5706	6371
70°	6632	4657	6141
75°	6353	4546	6417
80°	6871	5377	7149
85°	7716	6473	7790



TEST NUMBER: P730685

CATALOG NUMBER: HBLED-LD5-24HE-W-A-UNV-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	866.2	4.1
10°-20°	2479.0	11.8
20°-30°	3708.3	17.7
30°-40°	4230.9	20.2
40°-50°	3851.3	18.3
50°-60°	2828.0	13.5
60°-70°	1669.8	8.0
70°-80°	956.9	4.6
80°-90°	404.6	1.9
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°	7053.5	33.6
0°-40°	11284.4	53.7
0°-60°	17963.7	85.6
0°-90°	20995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20995.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9139	9139	9139	9139	9139	
5°	9072	9129	9093	9129	9130	862
15°	8755	8803	8772	8803	8793	2471
25°	8083	8112	8055	8052	8010	3721
35°	6971	6937	6796	6679	6586	4343
45°	5282	5252	4988	4764	4686	4071
55°	3502	3341	3154	2925	2890	3132
65°	1947	1700	1494	1598	1668	1959
75°	1018	873	729	950	1029	1098
85°	416	384	349	412	420	436
90°	0	0	0	0	0	



TEST NUMBER: P730685

CATALOG NUMBER: HBLED-LD5-24HE-W-A-UNV-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9139.4	9139.4	9139.4	9139.4	9139.4
2.5°	9097.2	9149.8	9116.8	9152.9	9183.8
5°	9072.5	9129.2	9093.1	9129.2	9130.2
7.5°	9027.2	9079.7	9044.7	9083.8	9079.7
10°	8956.0	9008.6	8976.6	9018.9	9022.0
12.5°	8865.3	8915.8	8882.9	8931.3	8923.0
15°	8755.0	8803.4	8772.5	8803.4	8793.2
17.5°	8625.1	8669.5	8629.3	8663.3	8645.8
20°	8472.6	8509.7	8466.4	8498.3	8460.3
22.5°	8290.2	8323.1	8277.8	8295.3	8256.1
25°	8083.0	8111.8	8055.1	8052.0	8009.8
27.5°	7852.1	7867.6	7795.4	7770.6	7722.2
30°	7590.3	7594.4	7498.6	7452.2	7389.3
32.5°	7296.5	7286.2	7163.5	7094.5	7017.2
35°	6970.8	6936.8	6795.6	6679.2	6586.4
37.5°	6602.9	6549.3	6380.2	6208.1	6119.4
40°	6194.7	6131.8	5928.8	5715.4	5644.3
42.5°	5750.5	5696.9	5457.7	5235.1	5165.0
45°	5282.5	5251.6	4987.7	4764.0	4685.7
47.5°	4814.5	4791.9	4534.2	4306.4	4211.5
50°	4365.2	4315.6	4082.8	3833.3	3746.7
52.5°	3929.1	3828.1	3623.0	3367.4	3303.5
55°	3502.4	3340.6	3154.1	2925.3	2890.2
57.5°	3079.8	2870.6	2689.2	2518.0	2517.1
60°	2671.7	2432.5	2247.0	2157.3	2186.2
62.5°	2289.2	2043.9	1842.9	1849.1	1901.7
65°	1947.1	1699.6	1493.5	1597.6	1667.7
67.5°	1653.3	1417.2	1208.0	1401.8	1468.7
70°	1404.9	1191.5	986.5	1228.6	1300.8
72.5°	1195.7	1016.3	831.8	1084.3	1157.5
75°	1018.4	873.0	728.7	950.4	1028.6
77.5°	874.1	745.2	653.5	822.5	903.9
80°	739.0	625.7	578.3	698.9	768.9
82.5°	585.4	507.1	479.3	567.9	604.0
85°	416.5	384.4	349.4	412.3	420.5
87.5°	228.8	237.1	195.8	237.1	238.1
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)