

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: P730661

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730661
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-L835
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: 21545.0 lumens
Efficiency: N/A
Efficacy: 150.7 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

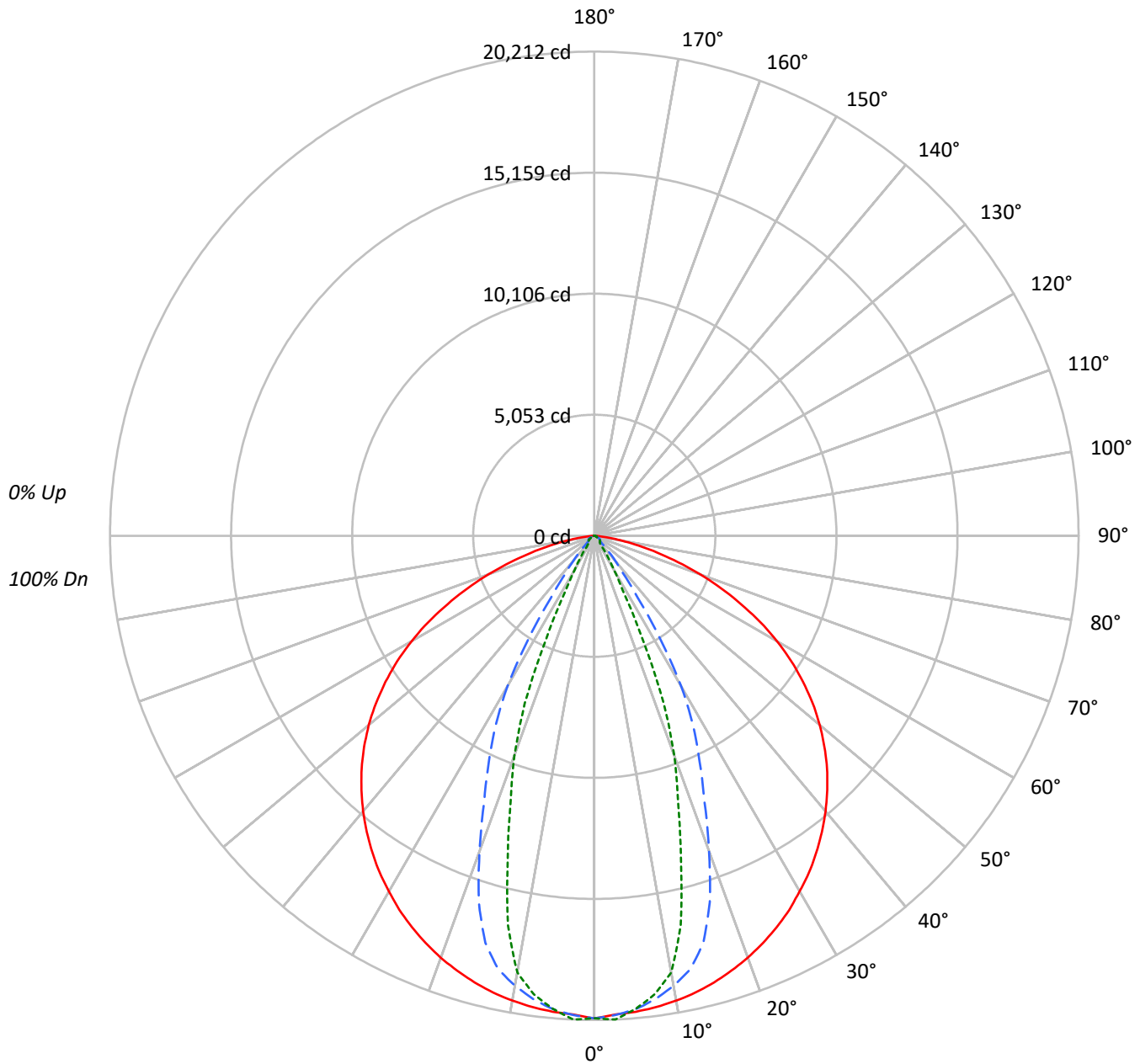
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730661

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

Luminous Intensity Polar Plot





TEST NUMBER: P730661

CATALOG NUMBER: HBLED-LD5-24HE-N-CL-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	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°	32526	32526	32526
5°	32326	32157	32134
10°	32304	31268	30346
15°	32267	29404	23333
20°	32205	24062	16736
25°	32104	18539	8505
30°	31952	13530	3094
35°	31838	6214	1077
40°	31642	2820	743
45°	31360	1052	753
50°	30860	764	792
55°	29947	804	604
60°	28458	859	532
65°	25808	654	433
70°	22128	472	399
75°	16913	418	380
80°	10582	393	413
85°	3342	459	554



TEST NUMBER: P730661

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1875.5	8.7
10°-20°	4724.5	21.9
20°-30°	5145.2	23.9
30°-40°	3848.9	17.9
40°-50°	2767.4	12.8
50°-60°	1699.6	7.9
60°-70°	978.0	4.5
70°-80°	436.5	2.0
80°-90°	69.2	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°	11745.3	54.5
0°-40°	15594.2	72.4
0°-60°	20061.3	93.1
0°-90°	21545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20145	20145	20145	20145	20145	
5°	19945	20039	19841	19860	19827	###
15°	19304	18934	17591	15107	13959	5449
25°	18020	16728	10407	6677	4774	8307
35°	16153	11585	3152	927	546	10104
45°	13734	6509	461	341	330	10580
55°	10638	1352	286	276	214	9485
65°	6755	148	171	142	113	6687
75°	2711	90	67	69	61	2942
85°	180	18	25	32	30	360
90°	0	0	0	0	0	



TEST NUMBER: P730661

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20145.1	20145.1	20145.1	20145.1	20145.1
2.5°	20005.0	20135.8	20025.5	20124.5	20212.1
5°	19945.2	20039.0	19841.0	19859.5	19826.6
7.5°	19842.0	19864.7	19507.1	19368.9	19301.9
10°	19703.9	19643.1	19072.0	18743.2	18509.2
12.5°	19529.7	19328.7	18530.8	17356.6	16656.7
15°	19304.0	18933.9	17590.7	15107.4	13958.9
17.5°	19034.9	18521.5	16034.0	12590.9	11597.2
20°	18743.2	18065.9	14004.2	10705.6	9740.6
22.5°	18398.9	17483.5	12002.3	8903.5	7578.9
25°	18020.5	16727.9	10406.6	6676.9	4774.0
27.5°	17612.4	15731.0	8929.3	4094.6	2581.3
30°	17138.1	14517.7	7257.3	2297.8	1659.7
32.5°	16675.2	13103.3	5184.2	1530.8	1060.7
35°	16152.6	11584.9	3152.4	926.8	546.3
37.5°	15599.0	10204.5	1973.1	504.1	377.3
40°	15012.5	8895.3	1338.0	357.8	352.6
42.5°	14385.7	7710.8	838.0	340.2	351.5
45°	13734.2	6508.9	460.8	341.2	329.9
47.5°	13027.1	5203.8	321.7	322.6	321.7
50°	12285.9	3732.7	304.1	318.6	315.5
52.5°	11486.9	2317.4	305.1	311.3	279.4
55°	10638.5	1352.5	285.5	276.3	214.4
57.5°	9746.8	843.2	279.4	227.9	192.8
60°	8812.8	445.4	266.0	205.2	164.9
62.5°	7818.0	219.6	213.3	175.2	135.1
65°	6755.2	148.5	171.2	142.2	113.4
67.5°	5728.5	134.0	128.9	116.5	99.0
70°	4687.3	122.6	100.0	102.0	84.5
72.5°	3665.8	111.3	80.4	87.6	71.1
75°	2711.2	89.7	67.0	69.0	60.9
77.5°	1886.5	70.1	52.6	58.8	56.7
80°	1138.1	44.4	42.3	48.4	44.4
82.5°	551.5	28.8	33.0	38.1	35.0
85°	180.4	17.5	24.8	31.9	29.9
87.5°	22.7	10.3	20.6	27.8	25.8
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)