

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: P730709

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-CLI-UNV-L835
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22190.0 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

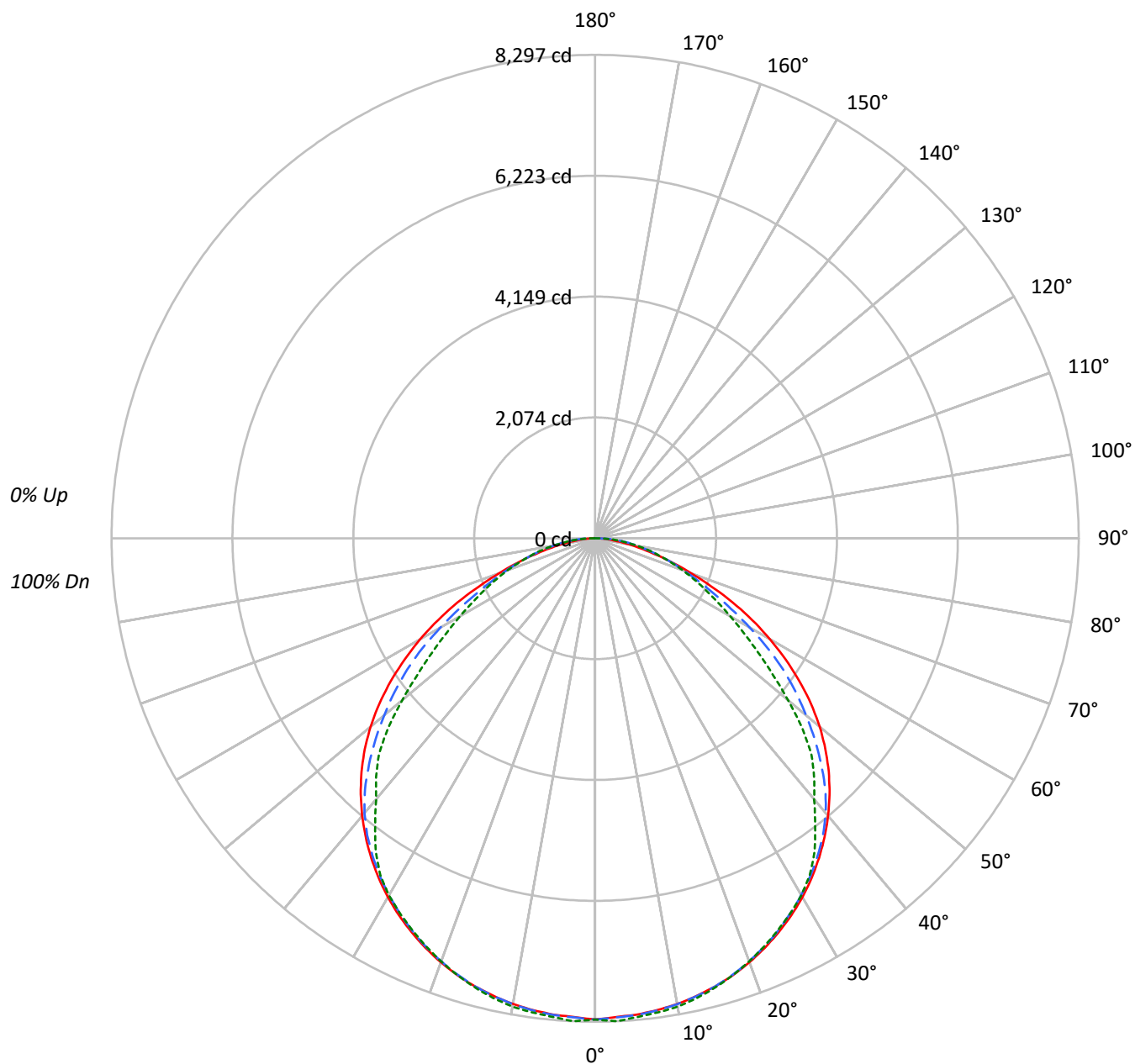
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	74	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	63	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	54	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	33	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13335	13335	13335
5°	13299	13309	13369
10°	13307	13313	13383
15°	13308	13307	13338
20°	13305	13275	13278
25°	13285	13235	13219
30°	13263	13184	13191
35°	13201	13119	12934
40°	13107	12973	12319
45°	12941	12527	11979
50°	12629	11860	10849
55°	12054	11092	9593
60°	11187	9896	8651
65°	9943	8568	7955
70°	8252	7658	7498
75°	6674	7008	7095
80°	5301	6703	6675
85°	4150	7201	6869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.3	3.5
10°-20°	2253.0	10.2
20°-30°	3435.4	15.5
30°-40°	4156.3	18.7
40°-50°	4210.0	19.0
50°-60°	3479.7	15.7
60°-70°	2298.3	10.4
70°-80°	1198.4	5.4
80°-90°	375.7	1.7
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°	6471.7	29.2
0°-40°	10628.0	47.9
0°-60°	18317.7	82.5
0°-90°	22190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22190.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8259	8259	8259	8259	8259	
5°	8206	8255	8212	8247	8248	780
15°	7962	8002	7961	7986	7980	2248
25°	7457	7487	7429	7448	7420	3438
35°	6698	6706	6656	6647	6562	4189
45°	5667	5653	5486	5316	5246	4364
55°	4282	4219	3940	3558	3408	3817
65°	2603	2527	2243	2097	2082	2571
75°	1070	1089	1123	1138	1137	1166
85°	224	288	389	386	371	272
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8259.2	8259.2	8259.2	8259.2	8259.2
2.5°	8224.6	8273.1	8232.4	8268.1	8296.9
5°	8205.7	8255.3	8211.6	8247.4	8248.4
7.5°	8169.1	8218.6	8173.9	8209.7	8208.7
10°	8116.4	8163.1	8120.4	8163.1	8163.1
12.5°	8045.1	8090.7	8049.1	8088.7	8082.7
15°	7961.8	8002.4	7960.8	7985.6	7979.6
17.5°	7863.6	7900.4	7853.7	7874.5	7862.7
20°	7743.7	7777.4	7725.9	7752.6	7727.8
22.5°	7608.8	7640.5	7588.0	7607.9	7580.0
25°	7457.2	7486.9	7429.4	7448.2	7420.4
27.5°	7293.5	7320.3	7255.8	7278.7	7256.8
30°	7114.0	7127.0	7071.5	7101.2	7075.4
32.5°	6913.8	6921.7	6873.1	6899.8	6856.3
35°	6697.6	6706.5	6656.0	6647.1	6561.8
37.5°	6466.6	6470.6	6423.0	6342.6	6201.9
40°	6218.8	6216.8	6155.3	5969.9	5844.9
42.5°	5953.9	5953.0	5844.9	5633.7	5562.4
45°	5667.4	5652.6	5486.0	5315.5	5246.0
47.5°	5360.1	5344.2	5111.2	4975.4	4817.7
50°	5027.9	5000.2	4721.5	4536.1	4319.0
52.5°	4670.0	4627.3	4343.8	4044.3	3839.1
55°	4282.3	4218.8	3940.3	3557.6	3407.8
57.5°	3878.8	3784.6	3513.9	3141.1	3019.2
60°	3464.3	3359.2	3064.7	2758.4	2679.0
62.5°	3038.0	2933.9	2633.5	2402.4	2358.8
65°	2602.7	2527.3	2242.8	2097.0	2082.2
67.5°	2156.5	2129.8	1912.6	1838.3	1832.3
70°	1748.0	1743.1	1622.1	1584.4	1588.4
72.5°	1397.1	1391.1	1373.3	1354.4	1355.4
75°	1069.9	1088.7	1123.4	1138.2	1137.3
77.5°	798.2	836.9	910.2	939.9	935.0
80°	570.1	627.6	720.9	748.6	717.9
82.5°	379.7	440.2	550.2	554.2	529.5
85°	224.0	288.5	388.7	385.7	370.8
87.5°	111.0	173.5	233.0	223.0	213.2
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)