

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: P730688

Luminaire Tested: **HBLED-LD5-24HE-W-AI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-AI-UNV-L735
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22039.0 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

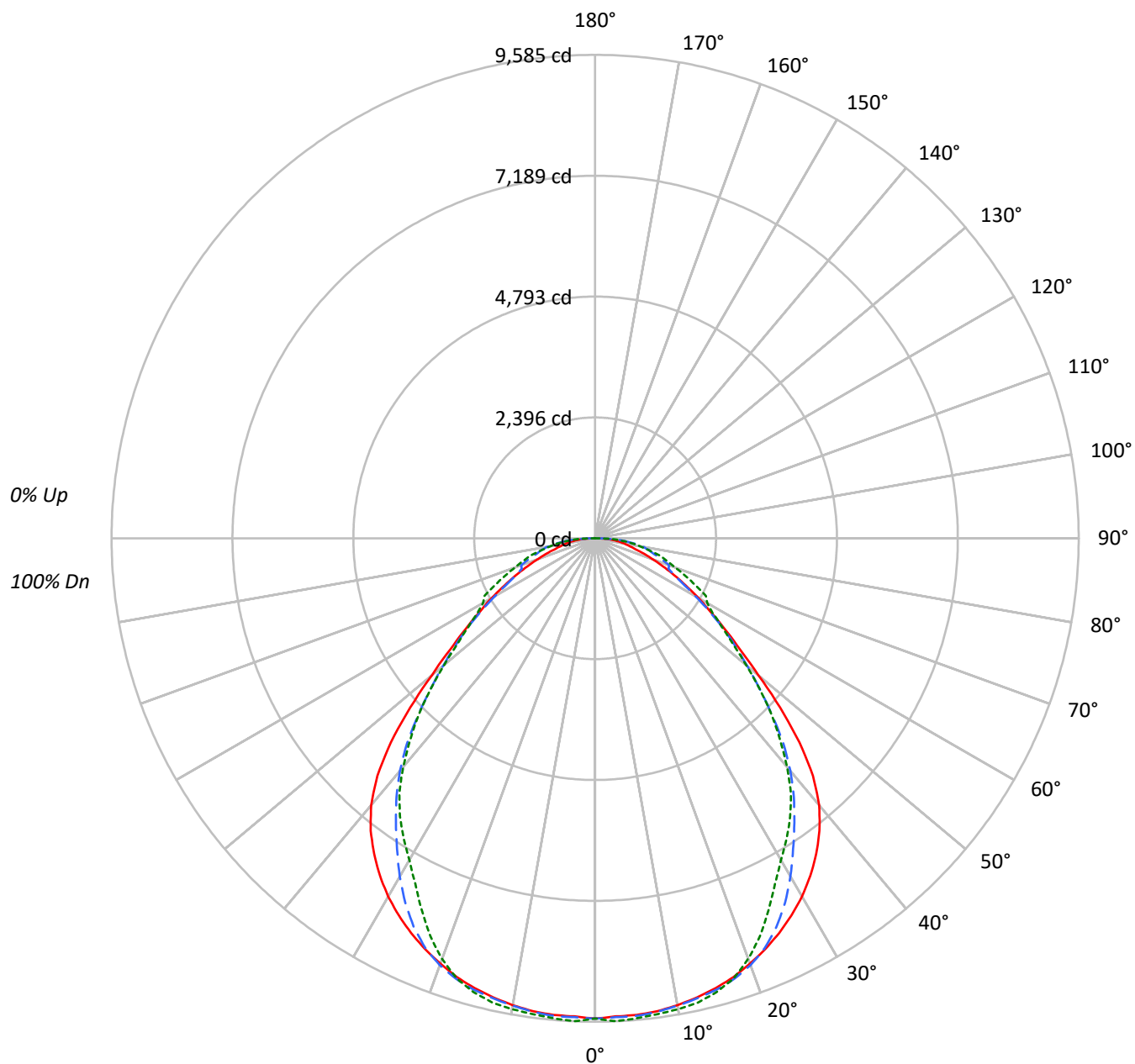
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730688

CATALOG NUMBER: HBLED-LD5-24HE-W-AI-UNV-L735

Luminous Intensity Polar Plot





TEST NUMBER: P730688

CATALOG NUMBER: HBLED-LD5-24HE-W-AI-UNV-L735

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15373	15373	15373
5°	15373	15406	15481
10°	15411	15430	15543
15°	15434	15492	15568
20°	15419	15476	15247
25°	15380	15150	14491
30°	15289	14435	13731
35°	15059	13567	13284
40°	14556	12685	12476
45°	13083	11327	11285
50°	10611	9866	9798
55°	8811	8647	8644
60°	7628	7406	8279
65°	6611	6570	8345
70°	5700	7370	7955
75°	5112	7554	8293
80°	5314	8892	8321
85°	6032	10248	9507



TEST NUMBER: P730688

CATALOG NUMBER: HBLED-LD5-24HE-W-AI-UNV-L735

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	906.6	4.1
10°-20°	2618.3	11.9
20°-30°	3888.7	17.6
30°-40°	4414.7	20.0
40°-50°	3946.6	17.9
50°-60°	2728.7	12.4
60°-70°	1800.5	8.2
70°-80°	1214.7	5.5
80°-90°	520.3	2.4
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°	7413.5	33.6
0°-40°	11828.2	53.7
0°-60°	18503.5	84.0
0°-90°	22039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9522	9522	9522	9522	9522	
5°	9485	9543	9505	9544	9552	903
15°	9234	9278	9268	9320	9313	2606
25°	8633	8715	8504	8250	8134	3978
35°	7640	7479	6883	6783	6740	4764
45°	5730	5244	4961	4998	4942	4357
55°	3130	2857	3072	3029	3071	2843
65°	1730	1536	1720	2011	2184	1727
75°	819	1031	1211	1294	1329	895
85°	326	453	553	556	513	339
90°	0	0	0	0	0	



TEST NUMBER: P730688

CATALOG NUMBER: HBLED-LD5-24HE-W-AI-UNV-L735

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9521.6	9521.6	9521.6	9521.6	9521.6
2.5°	9489.2	9548.5	9504.3	9545.3	9585.1
5°	9484.8	9543.1	9505.3	9544.1	9551.7
7.5°	9457.9	9511.8	9467.6	9505.3	9514.0
10°	9399.6	9463.3	9411.5	9469.8	9480.6
12.5°	9324.2	9388.9	9343.6	9423.4	9427.7
15°	9233.6	9277.8	9268.2	9319.9	9313.4
17.5°	9119.3	9170.1	9162.5	9175.4	9145.2
20°	8973.8	9030.9	9007.2	8947.9	8873.5
22.5°	8817.5	8886.4	8792.7	8642.8	8538.2
25°	8633.0	8715.0	8503.8	8250.4	8133.9
27.5°	8429.3	8502.6	8151.1	7840.7	7719.9
30°	8200.8	8232.0	7742.5	7447.1	7365.1
32.5°	7936.6	7891.3	7305.8	7110.7	7063.2
35°	7640.1	7479.4	6883.2	6782.9	6739.7
37.5°	7305.8	7011.5	6466.0	6419.6	6374.2
40°	6905.9	6471.3	6018.5	5988.3	5919.3
42.5°	6389.4	5883.7	5521.4	5485.8	5424.4
45°	5729.5	5244.3	4960.7	4998.5	4942.4
47.5°	4970.4	4602.8	4422.8	4526.3	4422.8
50°	4224.3	3977.5	3927.9	4021.7	3900.9
52.5°	3613.0	3390.9	3493.4	3509.5	3437.3
55°	3130.0	2857.2	3071.8	3028.6	3070.7
57.5°	2709.5	2404.3	2668.5	2618.9	2763.4
60°	2362.3	2019.5	2293.4	2282.5	2563.9
62.5°	2021.7	1747.8	1967.7	2126.2	2472.3
65°	1730.5	1536.4	1719.7	2010.8	2184.4
67.5°	1451.2	1377.9	1573.0	1734.8	1924.6
70°	1207.5	1245.3	1561.2	1531.0	1685.2
72.5°	1002.7	1131.1	1377.9	1383.3	1492.2
75°	819.4	1030.8	1210.9	1293.9	1329.4
77.5°	681.4	934.8	1093.3	1122.4	1087.9
80°	571.5	823.7	956.3	943.4	894.9
82.5°	461.4	624.3	753.7	765.6	708.4
85°	325.6	452.9	553.2	556.4	513.2
87.5°	174.6	279.3	335.3	345.0	319.1
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)