

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: P730761

Luminaire Tested: **HBLED-LD5-24SE-W-AI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730761
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-LD5-24SE-W-AI-UNV-L740
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22571.0 lumens
Efficiency: N/A
Efficacy: 150.5 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

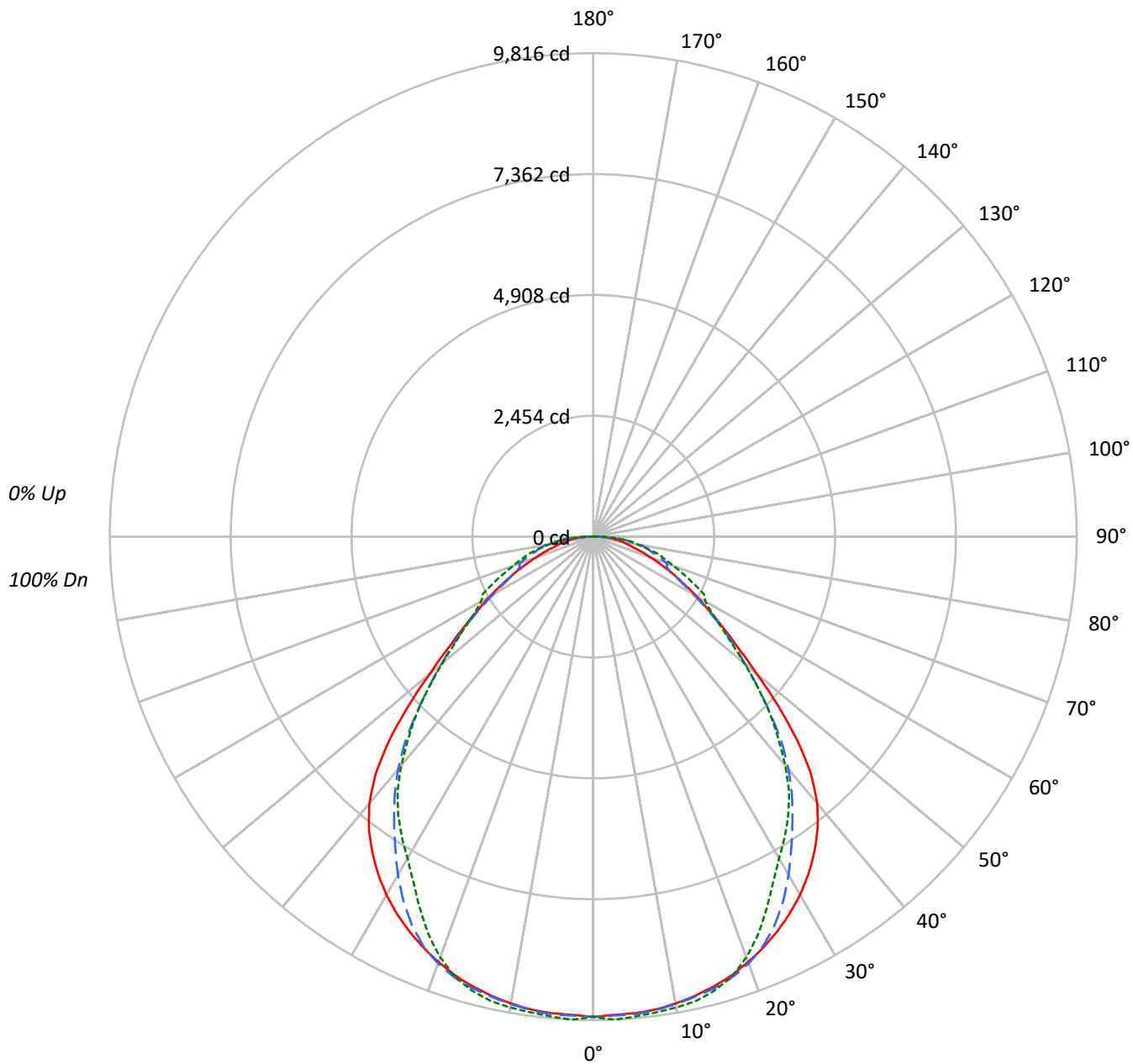
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730761

CATALOG NUMBER: HBLED-LD5-24SE-W-AI-UNV-L740

Luminous Intensity Polar Plot





TEST NUMBER: P730761

CATALOG NUMBER: HBLED-LD5-24SE-W-AI-UNV-L740

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°	15744	15744	15744
5°	15744	15778	15855
10°	15783	15803	15919
15°	15807	15866	15944
20°	15791	15850	15615
25°	15751	15515	14840
30°	15658	14783	14063
35°	15422	13895	13605
40°	14907	12991	12777
45°	13398	11601	11558
50°	10867	10104	10035
55°	9023	8856	8852
60°	7812	7584	8479
65°	6771	6729	8547
70°	5838	7548	8147
75°	5235	7736	8493
80°	5442	9106	8522
85°	6176	10495	9737



TEST NUMBER: P730761

CATALOG NUMBER: HBLED-LD5-24SE-W-AI-UNV-L740

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	928.5	4.1
10°-20°	2681.5	11.9
20°-30°	3982.5	17.6
30°-40°	4521.3	20.0
40°-50°	4041.8	17.9
50°-60°	2794.5	12.4
60°-70°	1844.0	8.2
70°-80°	1244.1	5.5
80°-90°	532.8	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°	7592.4	33.6
0°-40°	12113.7	53.7
0°-60°	18950.1	84.0
0°-90°	22571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9751	9751	9751	9751	9751	
5°	9714	9773	9735	9774	9782	925
15°	9456	9502	9492	9545	9538	2669
25°	8841	8925	8709	8450	8330	4074
35°	7824	7660	7049	6947	6902	4879
45°	5868	5371	5080	5119	5062	4462
55°	3206	2926	3146	3102	3145	2912
65°	1772	1574	1761	2059	2237	1769
75°	839	1056	1240	1325	1362	917
85°	333	464	566	570	526	348
90°	0	0	0	0	0	



TEST NUMBER: P730761

CATALOG NUMBER: HBLED-LD5-24SE-W-AI-UNV-L740

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9751.4	9751.4	9751.4	9751.4	9751.4
2.5°	9718.3	9779.0	9733.7	9775.7	9816.5
5°	9713.8	9773.4	9734.8	9774.5	9782.3
7.5°	9686.2	9741.4	9696.1	9734.8	9743.6
10°	9626.5	9691.7	9638.7	9698.3	9709.4
12.5°	9549.3	9615.6	9569.1	9650.8	9655.3
15°	9456.5	9501.8	9491.9	9544.8	9538.2
17.5°	9339.5	9391.4	9383.7	9396.9	9366.0
20°	9190.4	9248.9	9224.6	9163.9	9087.7
22.5°	9030.3	9100.9	9005.0	8851.5	8744.3
25°	8841.4	8925.4	8709.0	8449.5	8330.2
27.5°	8632.8	8707.9	8347.9	8029.9	7906.2
30°	8398.7	8430.7	7929.4	7626.8	7542.9
32.5°	8128.1	8081.8	7482.2	7282.3	7233.7
35°	7824.5	7659.9	7049.3	6946.6	6902.4
37.5°	7482.2	7180.8	6622.1	6574.5	6528.1
40°	7072.6	6627.5	6163.8	6132.9	6062.1
42.5°	6543.6	6025.7	5654.7	5618.2	5555.3
45°	5867.8	5370.9	5080.5	5119.2	5061.7
47.5°	5090.4	4713.9	4529.5	4635.5	4529.5
50°	4326.3	4073.5	4022.7	4118.8	3995.1
52.5°	3700.2	3472.8	3577.7	3594.2	3520.3
55°	3205.5	2926.2	3146.0	3101.8	3144.8
57.5°	2774.9	2462.4	2733.0	2682.1	2830.1
60°	2419.3	2068.2	2348.7	2337.6	2625.8
62.5°	2070.5	1790.0	2015.2	2177.5	2531.9
65°	1772.3	1573.5	1761.2	2059.4	2237.2
67.5°	1486.3	1411.2	1611.0	1776.7	1971.1
70°	1236.7	1275.3	1598.9	1568.0	1725.8
72.5°	1026.9	1158.4	1411.2	1416.7	1528.2
75°	839.2	1055.7	1240.1	1325.1	1361.5
77.5°	697.9	957.4	1119.7	1149.5	1114.2
80°	585.3	843.6	979.4	966.2	916.5
82.5°	472.6	639.4	771.9	784.0	725.5
85°	333.4	463.8	566.5	569.8	525.6
87.5°	178.9	286.0	343.4	353.4	326.8
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)