

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: P730764

Luminaire Tested: **HBLED-LD5-24SE-W-AI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730764
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-L840
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: 21545.0 lumens
Efficiency: N/A
Efficacy: 143.6 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

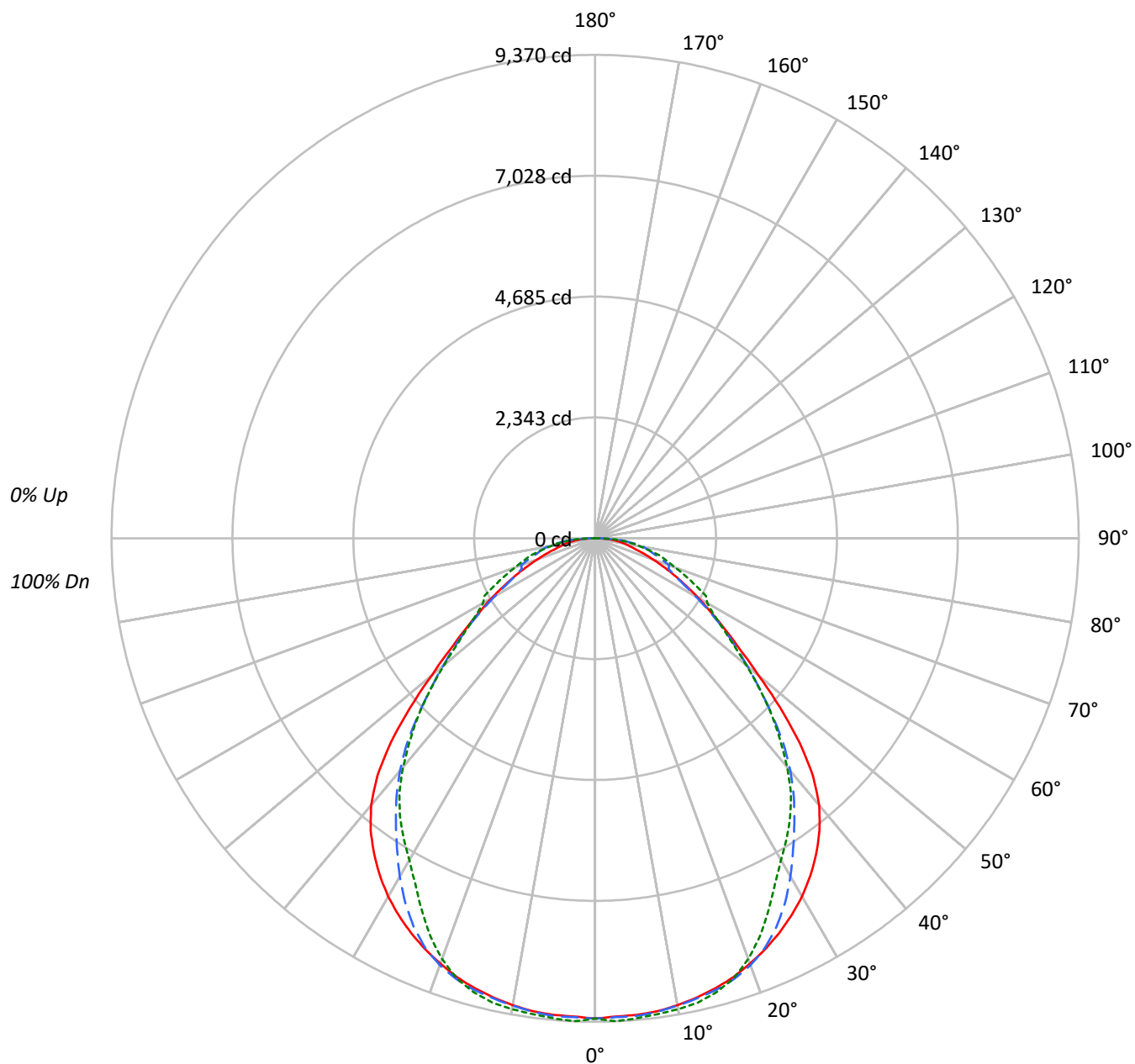
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730764

CATALOG NUMBER: HBLED-LD5-24SE-W-AI-UNV-L840

Luminous Intensity Polar Plot





TEST NUMBER: P730764

CATALOG NUMBER: HBLED-LD5-24SE-W-AI-UNV-L840

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°	15029	15029	15029
5°	15028	15061	15134
10°	15065	15084	15195
15°	15089	15145	15219
20°	15073	15129	14905
25°	15035	14810	14166
30°	14946	14111	13423
35°	14722	13263	12987
40°	14229	12401	12196
45°	12789	11073	11033
50°	10373	9645	9579
55°	8613	8453	8450
60°	7457	7239	8094
65°	6463	6423	8159
70°	5573	7205	7777
75°	4997	7384	8107
80°	5195	8693	8134
85°	5897	10018	9294



TEST NUMBER: P730764

CATALOG NUMBER: HBLED-LD5-24SE-W-AI-UNV-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	886.3	4.1
10°-20°	2559.6	11.9
20°-30°	3801.5	17.6
30°-40°	4315.8	20.0
40°-50°	3858.1	17.9
50°-60°	2667.5	12.4
60°-70°	1760.2	8.2
70°-80°	1187.5	5.5
80°-90°	508.6	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°	7247.3	33.6
0°-40°	11563.1	53.7
0°-60°	18088.7	84.0
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°	9308	9308	9308	9308	9308	
5°	9272	9329	9292	9330	9338	883
15°	9027	9070	9060	9111	9105	2548
25°	8440	8520	8313	8065	7952	3889
35°	7469	7312	6729	6631	6589	4657
45°	5601	5127	4850	4886	4832	4260
55°	3060	2793	3003	2961	3002	2779
65°	1692	1502	1681	1966	2136	1688
75°	801	1008	1184	1265	1300	875
85°	318	443	541	544	502	332
90°	0	0	0	0	0	



TEST NUMBER: P730764

CATALOG NUMBER: HBLED-LD5-24SE-W-AI-UNV-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9308.1	9308.1	9308.1	9308.1	9308.1
2.5°	9276.5	9334.5	9291.3	9331.3	9370.3
5°	9272.2	9329.2	9292.3	9330.2	9337.6
7.5°	9245.9	9298.6	9255.4	9292.3	9300.7
10°	9189.0	9251.2	9200.5	9257.5	9268.1
12.5°	9115.2	9178.5	9134.1	9212.1	9216.4
15°	9026.7	9069.9	9060.4	9111.0	9104.7
17.5°	8914.9	8964.5	8957.1	8969.7	8940.2
20°	8772.7	8828.5	8805.3	8747.3	8674.6
22.5°	8619.8	8687.2	8595.6	8449.1	8346.8
25°	8439.5	8519.7	8313.1	8065.4	7951.6
27.5°	8240.3	8312.0	7968.4	7664.9	7546.8
30°	8016.9	8047.4	7568.9	7280.1	7200.0
32.5°	7758.7	7714.4	7142.0	6951.3	6904.9
35°	7468.9	7311.8	6728.9	6630.9	6588.7
37.5°	7142.0	6854.4	6321.0	6275.7	6231.4
40°	6751.1	6326.2	5883.6	5854.1	5786.6
42.5°	6246.2	5751.8	5397.6	5362.9	5302.8
45°	5601.1	5126.7	4849.6	4886.5	4831.7
47.5°	4859.0	4499.7	4323.6	4424.8	4323.6
50°	4129.6	3888.3	3839.8	3931.5	3813.5
52.5°	3532.0	3314.9	3415.1	3430.8	3360.3
55°	3059.8	2793.2	3003.0	2960.8	3001.8
57.5°	2648.8	2350.4	2608.7	2560.2	2701.5
60°	2309.4	1974.2	2241.9	2231.4	2506.4
62.5°	1976.3	1708.6	1923.6	2078.5	2416.8
65°	1691.7	1502.0	1681.2	1965.8	2135.5
67.5°	1418.7	1347.0	1537.8	1695.9	1881.5
70°	1180.5	1217.4	1526.2	1496.7	1647.4
72.5°	980.2	1105.7	1347.0	1352.3	1458.8
75°	801.1	1007.7	1183.7	1264.9	1299.6
77.5°	666.1	913.8	1068.8	1097.3	1063.5
80°	558.7	805.2	934.9	922.3	874.8
82.5°	451.1	610.3	736.8	748.4	692.5
85°	318.3	442.7	540.8	543.9	501.7
87.5°	170.7	273.0	327.8	337.3	312.0
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)