

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P983516

Luminaire Tested: S125IW-B770UB50-4F0-XX-W2A-1

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P983516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125IW-B770UB50-4F0-XX-W2A-1
Description: Define 5 Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

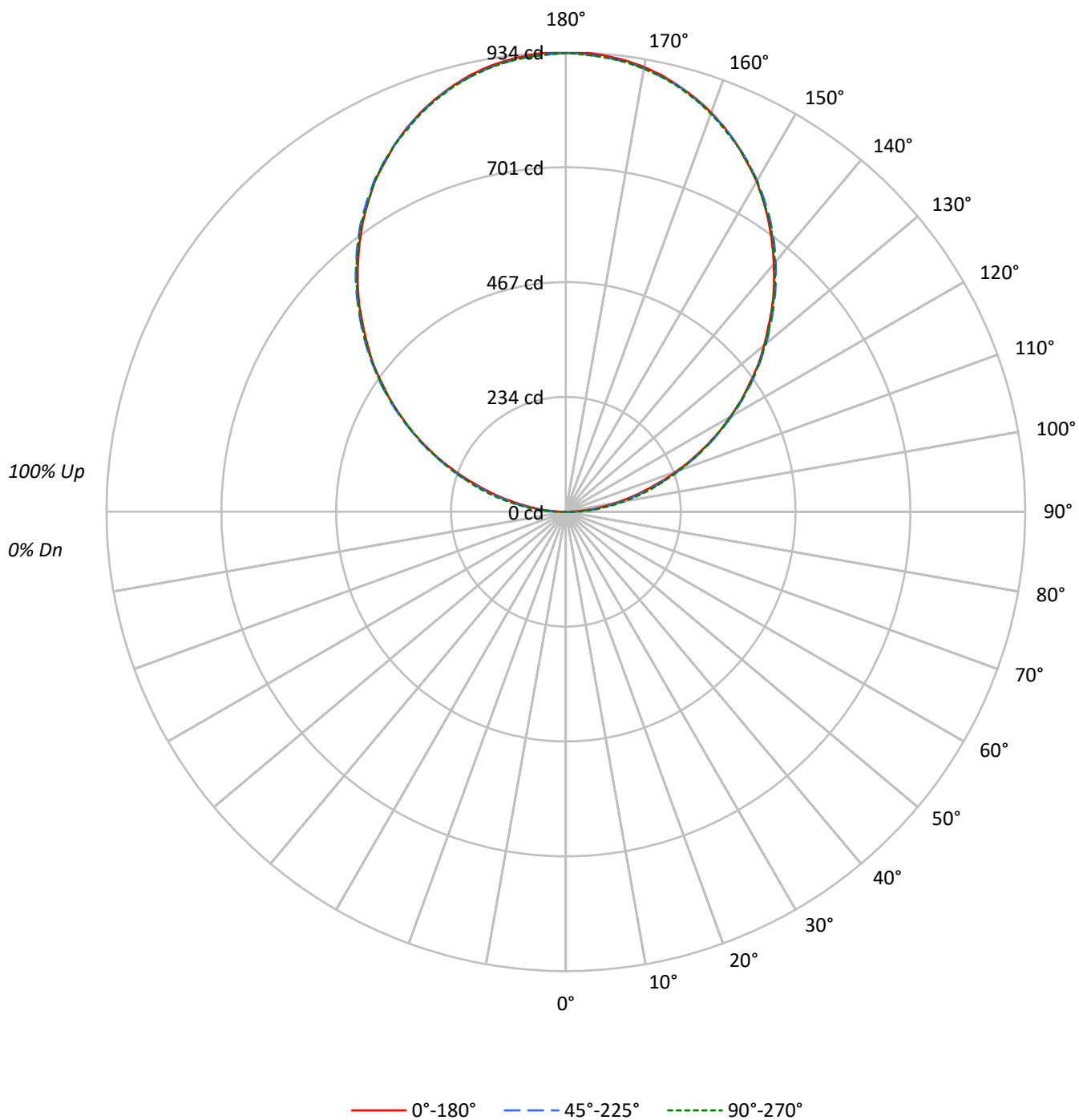
Lumens per Lamp: N/A
Luminaire Lumens: 2604.9 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 23.2
Input Voltage (V):
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: 24 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
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 0°
Luminance: 0 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	1.5	0.1
90°-100°	62.0	2.4
100°-110°	184.3	7.1
110°-120°	312.5	12.0
120°-130°	411.4	15.8
130°-140°	461.1	17.7
140°-150°	451.9	17.3
150°-160°	379.6	14.6
160°-170°	252.3	9.7
170°-180°	88.3	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.5	0.1
90°-120°	558.8	21.5
90°-150°	1883.3	72.3
90°-180°	2603.0	99.9
0°-180°	2604.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	6	12	15	17	3
95°	47	49	56	61	62	49
105°	166	169	174	178	180	176
115°	313	316	317	316	316	310
125°	457	461	462	460	460	409
135°	594	598	599	599	596	458
145°	719	722	724	724	722	450
155°	823	823	824	827	823	379
165°	895	894	894	897	893	253
175°	931	928	928	932	927	88
180°	933	933	933	933	933	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.7	6.5	11.6	15.2	17.4
92.5°	21.8	25.4	31.9	37.0	38.5
95°	47.2	48.6	55.9	61.0	62.4
97.5°	72.6	73.3	83.5	87.8	88.6
100°	101.6	101.6	111.1	117.6	119.1
102.5°	132.9	136.5	140.1	147.4	149.5
105°	165.5	169.1	173.5	177.9	180.0
107.5°	201.1	204.7	208.4	210.5	210.5
110°	238.1	241.7	243.9	246.1	245.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	275.9	277.3	280.2	280.9	279.5
115°	312.9	315.8	317.2	316.5	315.8
117.5°	350.6	351.4	352.8	353.5	350.6
120°	385.5	389.1	389.8	389.8	386.9
122.5°	423.2	424.0	426.1	425.4	423.2
125°	456.6	461.0	461.7	460.3	459.5
127.5°	493.7	495.8	496.6	495.8	494.4
130°	526.3	530.0	531.4	530.7	529.2
132.5°	559.0	565.5	564.8	564.1	561.9
135°	593.8	598.2	598.9	598.9	596.0
137.5°	626.5	630.9	632.3	633.0	629.4
140°	657.7	661.4	663.5	665.0	661.4
142.5°	688.9	691.8	694.7	695.5	691.8
145°	719.4	722.3	724.5	724.5	722.3
147.5°	747.7	749.9	751.4	753.6	747.7
150°	776.1	775.3	778.2	778.2	776.8
152.5°	799.3	800.7	801.5	803.6	800.7
155°	823.2	823.2	824.0	826.9	823.2
157.5°	845.0	843.6	844.3	847.2	842.1
160°	863.9	861.7	862.4	865.3	861.7
162.5°	880.6	879.1	879.1	882.8	878.4
165°	895.1	893.7	894.4	897.3	892.9
167.5°	908.2	905.3	905.3	909.6	905.3
170°	918.3	915.4	915.4	919.8	914.7
172.5°	925.6	922.7	922.7	927.1	922.7
175°	930.7	927.8	927.8	932.1	927.1
177.5°	934.3	931.4	930.7	935.0	930.0
180°	932.9	932.9	932.9	932.9	932.9

(END OF REPORT)