

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: P983517

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

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P983517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125IW-B770UB50-4F0-XX-W2A
Description: Define 5 Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

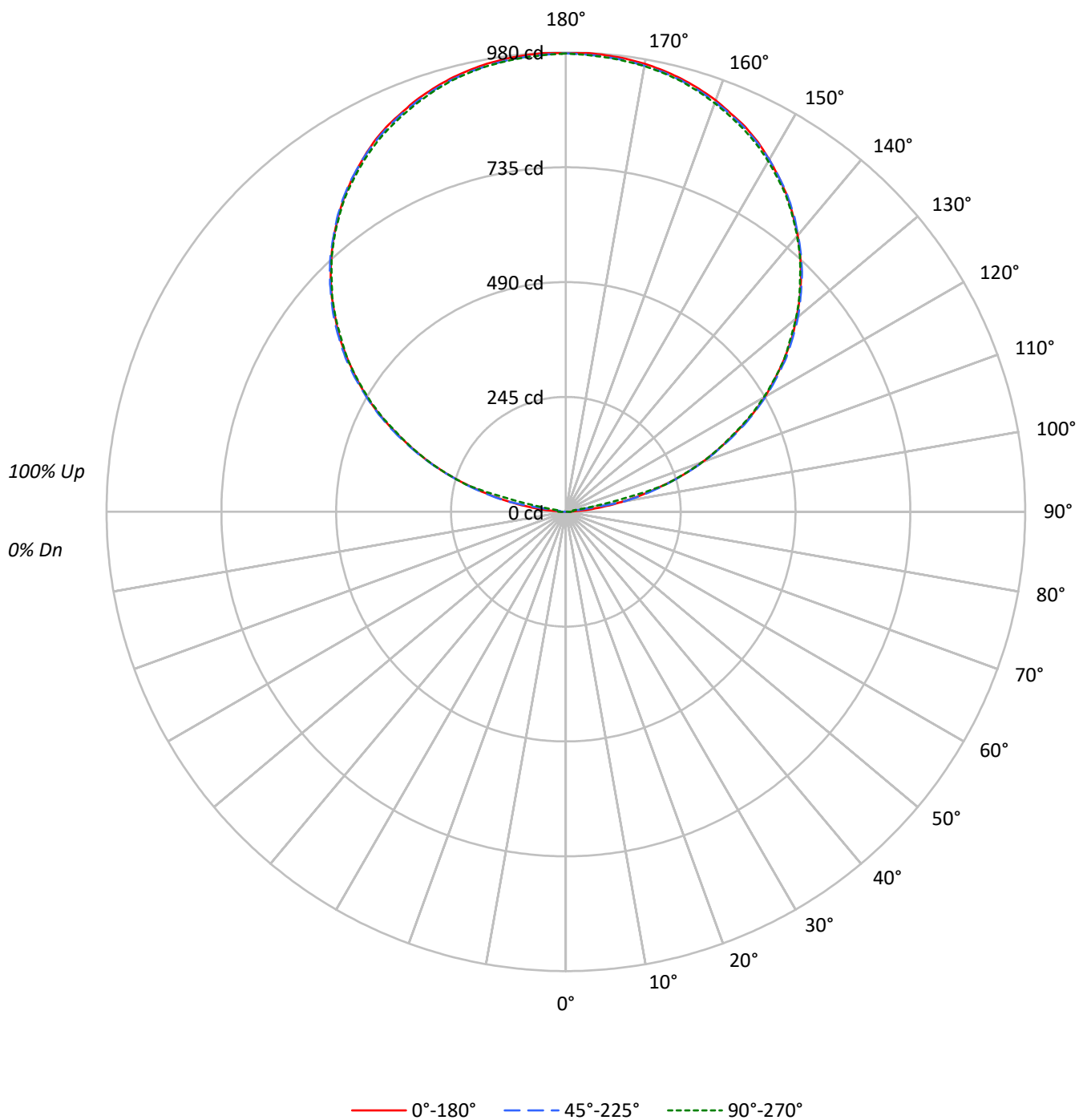
Lumens per Lamp: N/A
Luminaire Lumens: 3005.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

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	0.0
90°-100°	33.2	1.1
100°-110°	220.7	7.3
110°-120°	397.4	13.2
120°-130°	510.1	17.0
130°-140°	548.6	18.3
140°-150°	514.9	17.1
150°-160°	416.5	13.9
160°-170°	269.4	9.0
170°-180°	92.9	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.5	0.0
90°-120°	651.2	21.7
90°-150°	2224.8	74.0
90°-180°	3004.0	100.0
0°-180°	3005.0	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	2
95°	41	39	12	15	15	51
105°	213	216	216	216	215	226
115°	400	404	404	402	397	397
125°	569	574	574	571	569	508
135°	710	714	712	711	707	547
145°	823	824	824	825	820	515
155°	906	902	903	905	900	417
165°	956	952	952	957	951	270
175°	978	973	974	980	973	93
180°	978	978	978	978	978	

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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°	13.8	7.2	11.6	15.2	15.9
95°	41.3	39.1	11.6	15.2	15.2
97.5°	77.6	81.9	13.0	14.5	15.2
100°	121.0	123.2	126.1	18.1	15.2
102.5°	165.3	168.2	169.6	171.1	110.2
105°	213.1	216.0	216.0	216.0	215.3
107.5°	262.4	262.4	263.8	264.6	261.7
110°	310.2	310.2	311.7	309.5	310.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	355.2	357.3	358.1	355.2	353.7
115°	400.1	403.7	404.5	401.6	397.2
117.5°	447.2	447.2	450.1	445.8	444.3
120°	490.7	490.0	492.2	490.7	487.1
122.5°	529.1	532.7	533.5	532.0	527.7
125°	569.0	574.1	574.1	571.2	569.0
127.5°	607.4	611.0	610.3	608.9	603.1
130°	642.2	645.8	646.5	644.4	640.7
132.5°	677.0	681.3	679.2	679.2	675.5
135°	709.6	713.9	712.5	711.1	706.7
137.5°	740.0	744.4	742.9	742.9	739.3
140°	769.8	771.2	770.5	771.9	767.6
142.5°	796.6	797.3	798.8	798.8	794.4
145°	822.7	824.1	824.1	824.8	820.5
147.5°	845.9	845.9	846.6	847.3	842.2
150°	867.6	866.2	867.6	869.1	863.3
152.5°	888.6	885.0	886.5	887.9	882.8
155°	906.0	901.7	903.1	905.3	899.5
157.5°	919.8	917.6	917.6	919.8	914.0
160°	934.3	929.9	930.7	933.6	927.8
162.5°	945.9	941.5	942.3	946.6	940.1
165°	956.0	951.7	952.4	956.8	951.0
167.5°	964.0	959.7	960.4	965.5	958.9
170°	970.5	965.5	966.2	972.0	965.5
172.5°	974.9	969.8	971.3	976.3	969.8
175°	977.8	973.4	974.2	980.0	973.4
177.5°	980.0	975.6	976.3	981.4	975.6
180°	977.8	977.8	977.8	977.8	977.8

(END OF REPORT)