

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: P983498

Luminaire Tested: S125IW-B770UB27-4F0-XX-W2A-1

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P983498
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-B770UB27-4F0-XX-W2A-1
Description: Define 5 Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

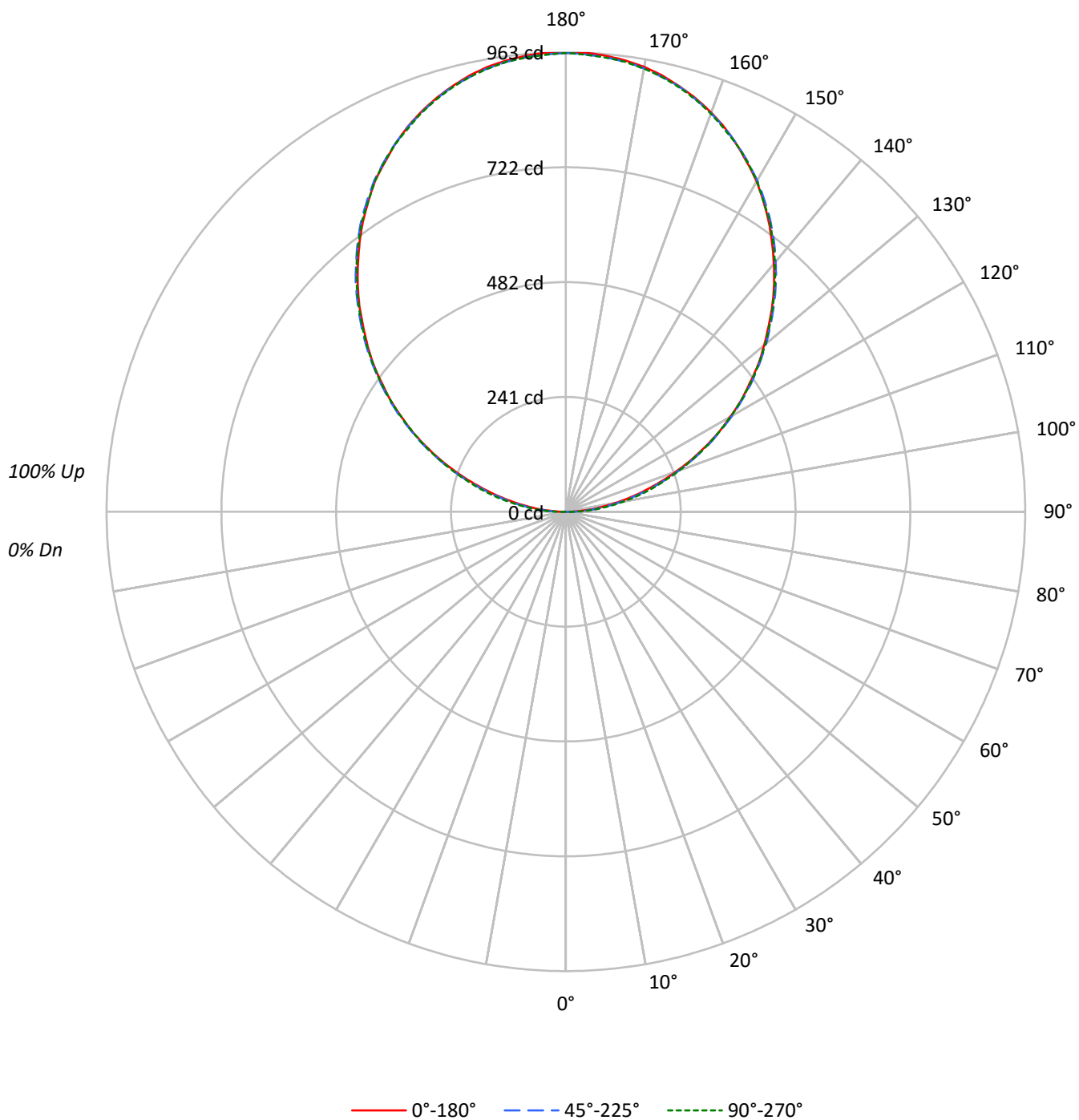
Lumens per Lamp: N/A
Luminaire Lumens: 2686.0 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

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°	64.0	2.4
100°-110°	190.0	7.1
110°-120°	322.3	12.0
120°-130°	424.2	15.8
130°-140°	475.4	17.7
140°-150°	466.0	17.3
150°-160°	391.4	14.6
160°-170°	260.2	9.7
170°-180°	91.1	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°	576.3	21.5
90°-150°	1941.9	72.3
90°-180°	2685.0	100.0
0°-180°	2686.0	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	7	12	16	18	3
95°	49	50	58	63	64	51
105°	171	174	179	183	186	182
115°	323	326	327	326	326	319
125°	471	475	476	475	474	422
135°	612	617	618	618	614	472
145°	742	745	747	747	745	464
155°	849	849	850	853	849	391
165°	923	921	922	925	921	260
175°	960	957	957	961	956	91
180°	962	962	962	962	962	

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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	6.7	12.0	15.7	18.0
92.5°	22.5	26.2	32.9	38.2	39.7
95°	48.7	50.2	57.6	62.9	64.4
97.5°	74.9	75.6	86.1	90.6	91.3
100°	104.8	104.8	114.5	121.3	122.8
102.5°	137.0	140.7	144.5	152.0	154.2
105°	170.7	174.4	178.9	183.4	185.6
107.5°	207.3	211.1	214.8	217.1	217.1
110°	245.5	249.3	251.5	253.8	253.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.4	285.9	288.9	289.7	288.2
115°	322.6	325.6	327.1	326.4	325.6
117.5°	361.5	362.3	363.8	364.5	361.5
120°	397.5	401.2	402.0	402.0	399.0
122.5°	436.4	437.1	439.4	438.6	436.4
125°	470.8	475.3	476.1	474.6	473.8
127.5°	509.0	511.3	512.0	511.3	509.8
130°	542.7	546.4	547.9	547.2	545.7
132.5°	576.4	583.1	582.4	581.6	579.4
135°	612.3	616.8	617.5	617.5	614.5
137.5°	646.0	650.5	652.0	652.7	649.0
140°	678.2	681.9	684.2	685.7	681.9
142.5°	710.4	713.4	716.4	717.1	713.4
145°	741.8	744.8	747.0	747.0	744.8
147.5°	771.0	773.2	774.7	777.0	771.0
150°	800.2	799.4	802.4	802.4	800.9
152.5°	824.1	825.6	826.4	828.6	825.6
155°	848.8	848.8	849.6	852.6	848.8
157.5°	871.3	869.8	870.5	873.5	868.3
160°	890.8	888.5	889.3	892.3	888.5
162.5°	908.0	906.5	906.5	910.2	905.7
165°	922.9	921.4	922.2	925.2	920.7
167.5°	936.4	933.4	933.4	937.9	933.4
170°	946.9	943.9	943.9	948.4	943.2
172.5°	954.4	951.4	951.4	955.9	951.4
175°	959.6	956.6	956.6	961.1	955.9
177.5°	963.4	960.4	959.6	964.1	958.9
180°	961.9	961.9	961.9	961.9	961.9

(END OF REPORT)