

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: P983514

Luminaire Tested: S125IW-B770UB40-4F0-XX-W2A-1

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P983514
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-B770UB40-4F0-XX-W2A-1
Description: Define 5 Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

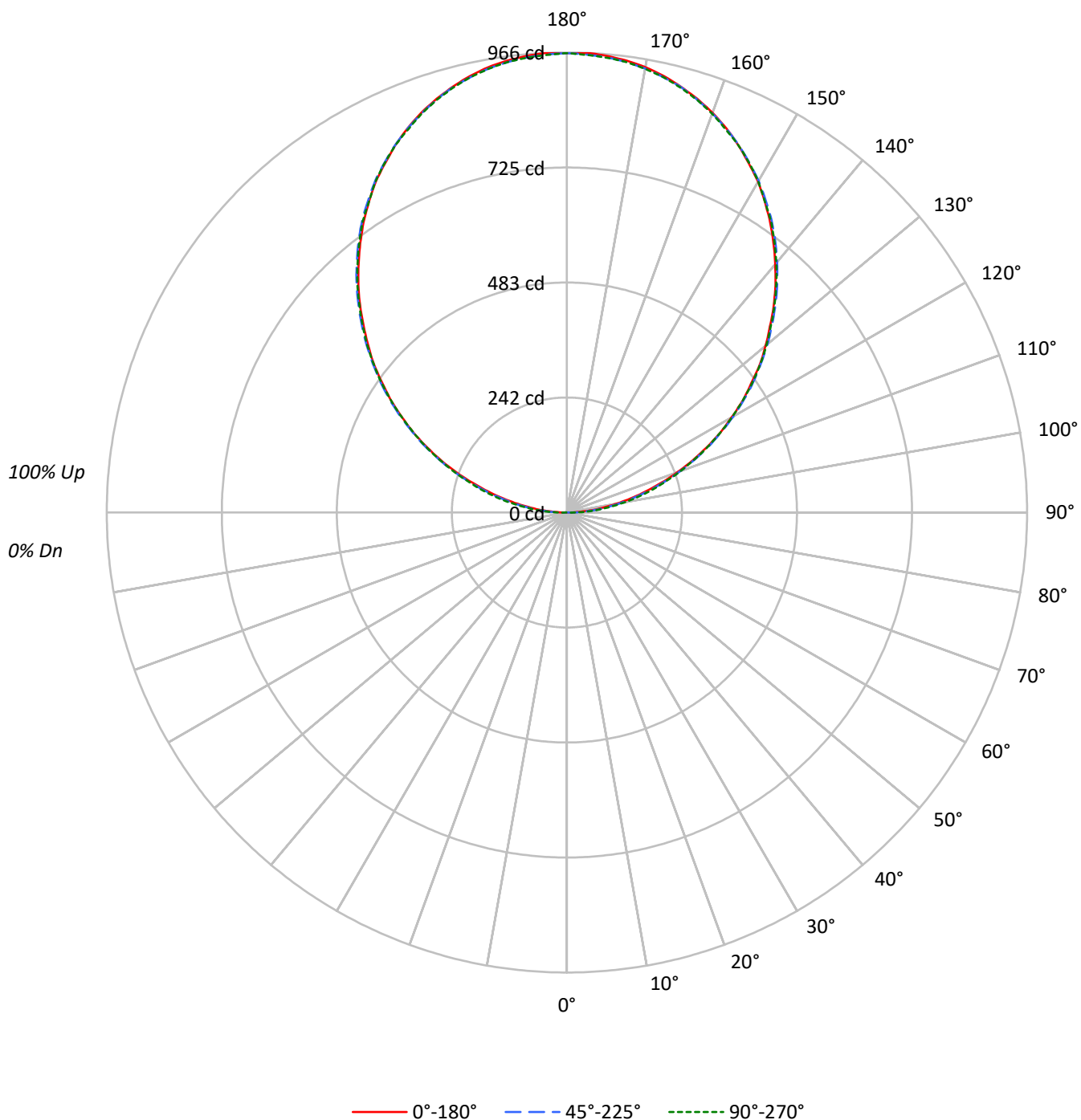
Lumens per Lamp: N/A
Luminaire Lumens: 2694.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

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°	64.2	2.4
100°-110°	190.6	7.1
110°-120°	323.2	12.0
120°-130°	425.5	15.8
130°-140°	476.8	17.7
140°-150°	467.4	17.3
150°-160°	392.6	14.6
160°-170°	261.0	9.7
170°-180°	91.3	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°	578.0	21.5
90°-150°	1947.6	72.3
90°-180°	2692.0	99.9
0°-180°	2694.0	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	65	51
105°	171	175	179	184	186	183
115°	324	327	328	327	327	320
125°	472	477	478	476	475	423
135°	614	619	619	619	616	473
145°	744	747	749	749	747	465
155°	851	851	852	855	851	392
165°	926	924	925	928	923	261
175°	962	960	960	964	959	91
180°	965	965	965	965	965	

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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°	0.8	6.8	12.0	15.8	18.0
92.5°	22.5	26.3	33.0	38.3	39.8
95°	48.8	50.3	57.8	63.1	64.6
97.5°	75.1	75.8	86.3	90.8	91.6
100°	105.1	105.1	114.9	121.6	123.1
102.5°	137.4	141.1	144.9	152.4	154.7
105°	171.2	174.9	179.4	183.9	186.2
107.5°	208.0	211.7	215.5	217.7	217.7
110°	246.3	250.0	252.3	254.5	253.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	285.3	286.8	289.8	290.5	289.0
115°	323.6	326.6	328.1	327.3	326.6
117.5°	362.6	363.4	364.9	365.6	362.6
120°	398.7	402.4	403.2	403.2	400.2
122.5°	437.7	438.4	440.7	439.9	437.7
125°	472.2	476.7	477.5	476.0	475.2
127.5°	510.5	512.8	513.5	512.8	511.3
130°	544.3	548.1	549.6	548.8	547.3
132.5°	578.1	584.8	584.1	583.3	581.1
135°	614.1	618.6	619.4	619.4	616.4
137.5°	647.9	652.4	653.9	654.7	650.9
140°	680.2	683.9	686.2	687.7	683.9
142.5°	712.5	715.5	718.5	719.2	715.5
145°	744.0	747.0	749.3	749.3	747.0
147.5°	773.3	775.5	777.0	779.3	773.3
150°	802.6	801.8	804.8	804.8	803.3
152.5°	826.6	828.1	828.8	831.1	828.1
155°	851.4	851.4	852.1	855.1	851.4
157.5°	873.9	872.4	873.1	876.1	870.9
160°	893.4	891.2	891.9	894.9	891.2
162.5°	910.7	909.2	909.2	912.9	908.4
165°	925.7	924.2	924.9	927.9	923.4
167.5°	939.2	936.2	936.2	940.7	936.2
170°	949.7	946.7	946.7	951.2	946.0
172.5°	957.2	954.2	954.2	958.7	954.2
175°	962.5	959.5	959.5	964.0	958.7
177.5°	966.2	963.2	962.5	967.0	961.7
180°	964.7	964.7	964.7	964.7	964.7

(END OF REPORT)