

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: P983515

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

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P983515
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-B770UB40-4F0-XX-W2A
Description: Define 5 Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

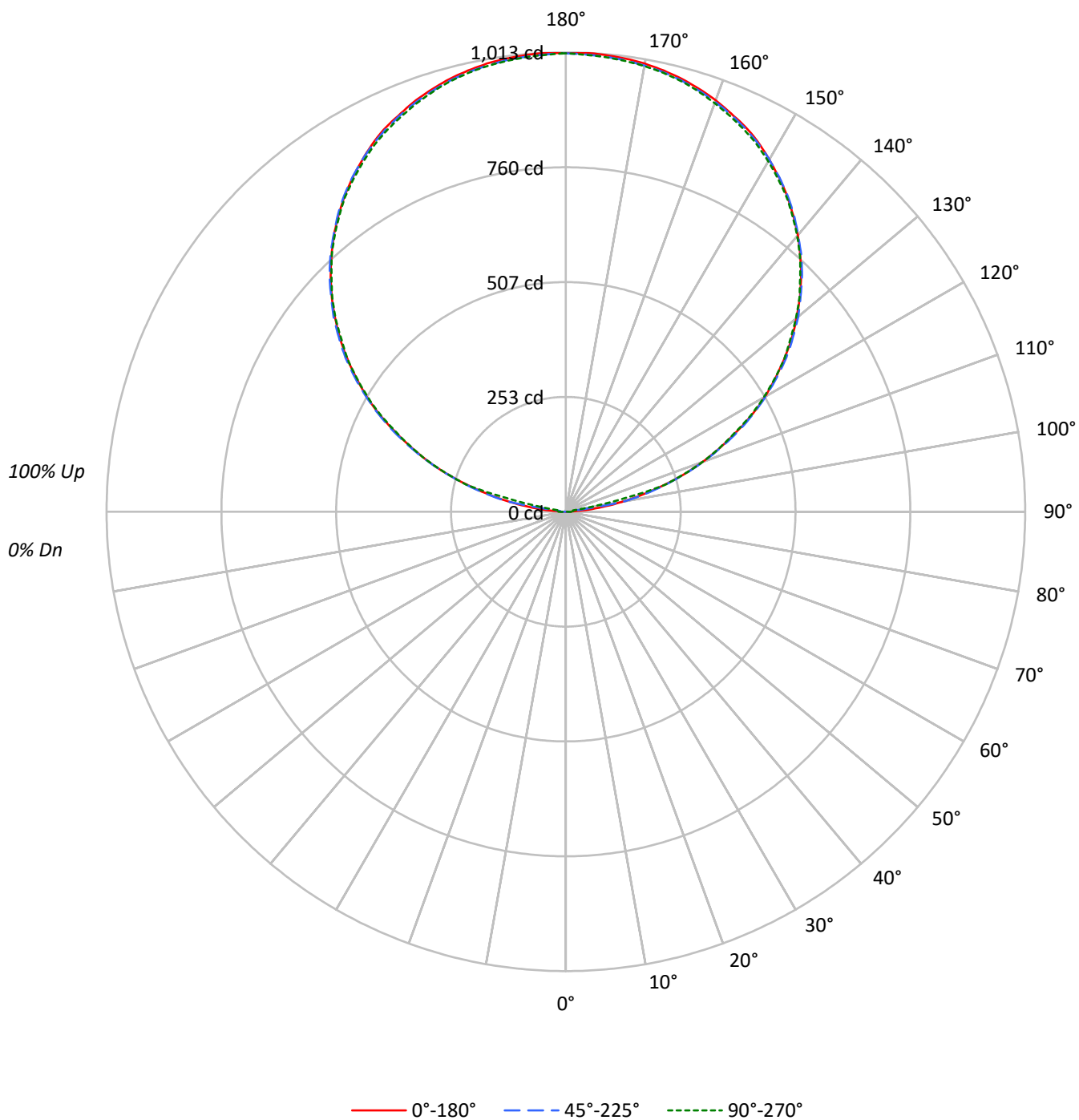
Lumens per Lamp: N/A
Luminaire Lumens: 3107.0 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

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			0
RW	70	50	30	10	70	50	30	10	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	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	8	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	5	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	4	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	3	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	2	2	0

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°	34.3	1.1
100°-110°	228.2	7.3
110°-120°	410.9	13.2
120°-130°	527.4	17.0
130°-140°	567.2	18.3
140°-150°	532.4	17.1
150°-160°	430.6	13.9
160°-170°	278.5	9.0
170°-180°	96.0	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°	673.4	21.7
90°-150°	2300.3	74.0
90°-180°	3106.0	100.0
0°-180°	3107.0	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	2
95°	43	40	12	16	16	52
105°	220	223	223	223	223	233
115°	414	417	418	415	411	410
125°	588	594	594	590	588	526
135°	734	738	737	735	731	566
145°	851	852	852	853	848	532
155°	937	932	934	936	930	432
165°	988	984	985	989	983	279
175°	1011	1006	1007	1013	1006	96
180°	1011	1011	1011	1011	1011	

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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°	14.2	7.5	12.0	15.7	16.5
95°	42.7	40.5	12.0	15.7	15.7
97.5°	80.2	84.7	13.5	15.0	15.7
100°	125.2	127.4	130.4	18.7	15.7
102.5°	170.9	173.9	175.4	176.9	113.9
105°	220.3	223.3	223.3	223.3	222.6
107.5°	271.3	271.3	272.8	273.5	270.5
110°	320.8	320.8	322.3	320.0	320.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	367.2	369.5	370.2	367.2	365.7
115°	413.7	417.4	418.2	415.2	410.7
117.5°	462.4	462.4	465.4	460.9	459.4
120°	507.4	506.6	508.9	507.4	503.6
122.5°	547.1	550.8	551.6	550.1	545.6
125°	588.3	593.5	593.5	590.5	588.3
127.5°	628.0	631.8	631.0	629.5	623.5
130°	664.0	667.7	668.5	666.2	662.5
132.5°	700.0	704.5	702.2	702.2	698.5
135°	733.7	738.2	736.7	735.2	730.7
137.5°	765.2	769.7	768.2	768.2	764.4
140°	795.9	797.4	796.6	798.1	793.6
142.5°	823.6	824.4	825.9	825.9	821.4
145°	850.6	852.1	852.1	852.8	848.3
147.5°	874.6	874.6	875.3	876.1	870.8
150°	897.1	895.6	897.1	898.6	892.6
152.5°	918.8	915.0	916.5	918.0	912.8
155°	936.8	932.3	933.8	936.0	930.0
157.5°	951.0	948.8	948.8	951.0	945.0
160°	966.0	961.5	962.3	965.3	959.3
162.5°	978.0	973.5	974.3	978.7	972.0
165°	988.5	984.0	984.7	989.2	983.2
167.5°	996.7	992.2	993.0	998.2	991.5
170°	1003.5	998.2	999.0	1005.0	998.2
172.5°	1008.0	1002.7	1004.2	1009.5	1002.7
175°	1011.0	1006.5	1007.2	1013.2	1006.5
177.5°	1013.2	1008.7	1009.5	1014.7	1008.7
180°	1011.0	1011.0	1011.0	1011.0	1011.0

(END OF REPORT)