

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: P1007765

Luminaire Tested: S124IP-B810UB40-4F0-XX-W2A

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124IP-B810UB40-4F0-XX-W2A
Description: Define 4 Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

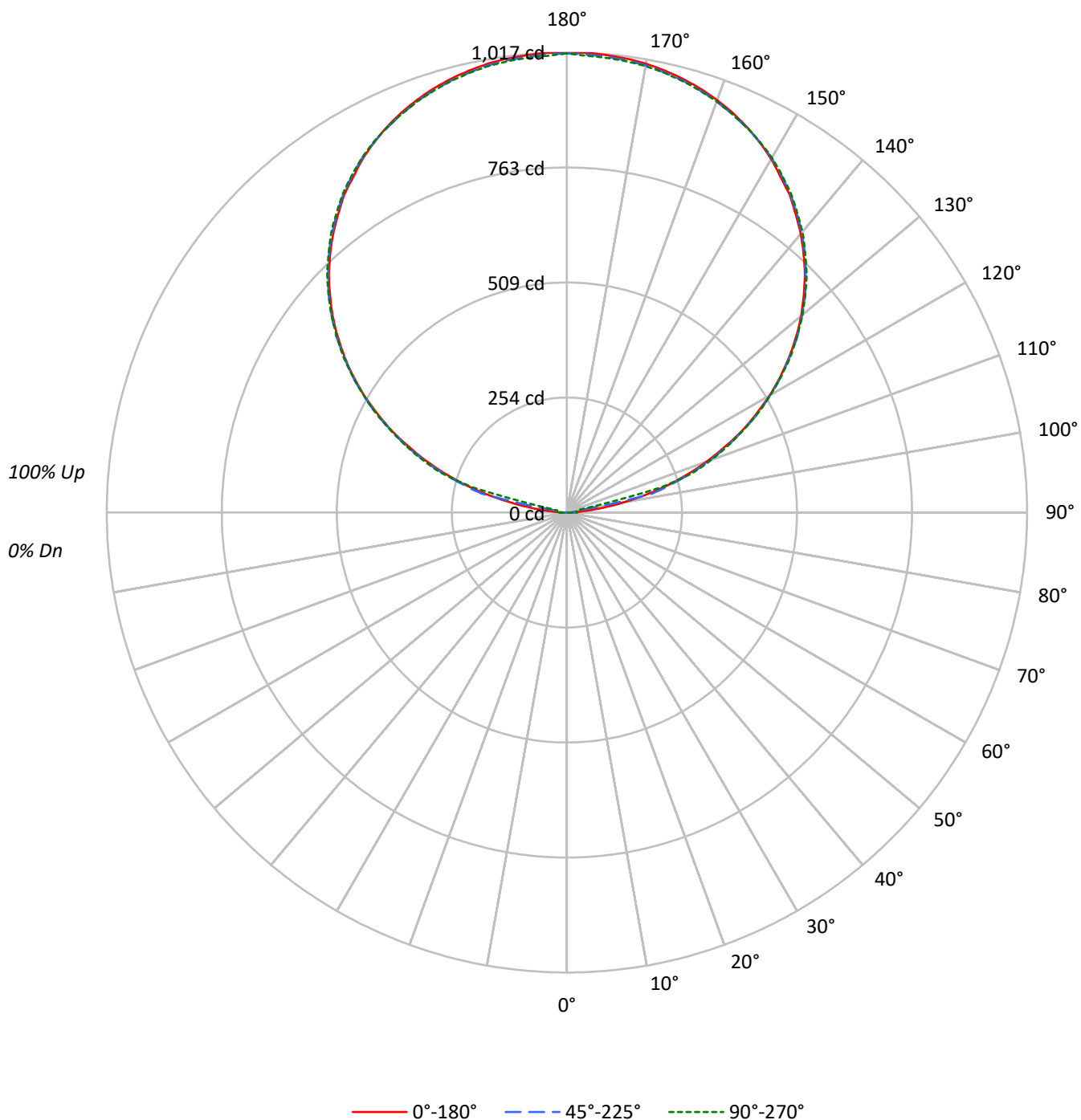
Lumens per Lamp: N/A
Luminaire Lumens: 3143.0 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 21.1
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°	2.1	0.1
90°-100°	33.7	1.1
100°-110°	221.9	7.1
110°-120°	423.7	13.5
120°-130°	537.9	17.1
130°-140°	575.4	18.3
140°-150°	538.1	17.1
150°-160°	433.9	13.8
160°-170°	279.8	8.9
170°-180°	96.4	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.1	0.1
90°-120°	679.3	21.6
90°-150°	2330.7	74.2
90°-180°	3141.0	99.9
0°-180°	3143.0	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°	2	11	17	21	23	2
95°	42	16	17	21	22	51
105°	228	233	237	244	216	239
115°	427	429	428	430	430	420
125°	600	603	601	604	604	536
135°	744	743	746	748	749	573
145°	858	860	860	861	862	536
155°	941	941	939	942	940	434
165°	992	988	988	994	988	280
175°	1015	1010	1011	1018	1009	97
180°	1015	1015	1015	1015	1015	

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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°	2.3	10.6	16.7	21.3	22.8
92.5°	11.4	9.9	15.9	20.5	20.5
95°	41.8	15.9	16.7	21.3	22.0
97.5°	79.7	96.4	16.7	20.5	21.3
100°	124.5	138.2	33.4	20.5	21.3
102.5°	174.6	183.7	192.8	22.0	22.0
105°	228.5	233.1	236.9	243.7	216.4
107.5°	277.9	280.1	285.5	289.3	292.3
110°	328.0	330.2	334.8	336.3	338.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	376.6	381.1	382.6	381.9	384.9
115°	426.7	428.9	428.2	429.7	429.7
117.5°	471.5	474.5	476.8	476.0	476.0
120°	517.0	520.0	519.3	520.8	519.3
122.5°	559.5	561.0	562.6	563.3	561.8
125°	599.8	602.8	601.3	603.6	604.3
127.5°	638.5	639.2	643.0	642.3	641.5
130°	675.7	676.4	678.7	679.5	679.5
132.5°	709.8	711.4	714.4	715.2	714.4
135°	744.0	743.3	746.3	747.8	749.3
137.5°	774.4	774.4	778.2	779.7	778.9
140°	804.0	805.5	807.0	809.3	810.1
142.5°	830.6	833.6	834.4	835.9	835.9
145°	857.9	860.2	860.2	860.9	862.4
147.5°	879.1	883.7	882.9	883.7	884.5
150°	902.7	905.7	905.0	905.0	905.7
152.5°	922.4	924.7	923.2	924.7	923.9
155°	940.6	941.4	939.1	942.2	939.9
157.5°	956.6	956.6	953.5	957.3	953.5
160°	970.3	968.0	967.2	971.8	967.2
162.5°	982.4	979.4	978.6	983.2	977.8
165°	992.3	988.5	988.5	994.5	987.7
167.5°	1000.6	996.8	996.1	1002.9	995.3
170°	1007.5	1002.9	1003.7	1009.7	1002.1
172.5°	1012.0	1007.5	1008.2	1014.3	1005.9
175°	1015.0	1010.5	1011.2	1018.1	1009.0
177.5°	1017.3	1012.0	1013.5	1019.6	1010.5
180°	1015.0	1015.0	1015.0	1015.0	1015.0

(END OF REPORT)