

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: P1033599

Luminaire Tested: S124DIW-B575D1560UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033599
REPORT IS A COMBINATION OF REPORTS P997775 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B575D1560UB30-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

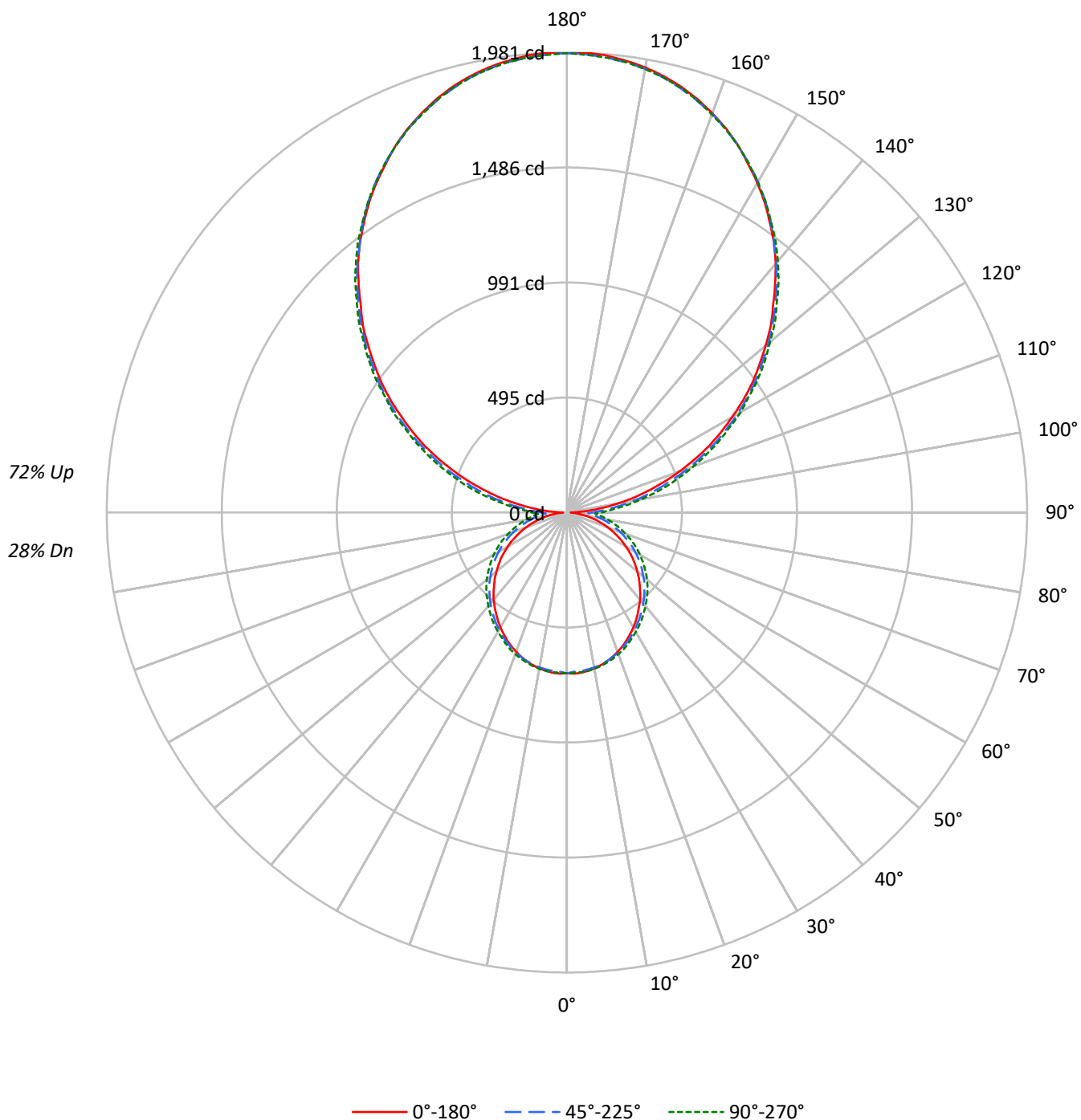
Lumens per Lamp: N/A
Luminaire Lumens: 7852.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 76.2
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

TEST NUMBER: P1033599

CATALOG NUMBER: S124DIW-B575D1560UB30-4F0-XX-W2A-D1

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	50	30	10
RCR																				
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36			28
1	92	88	84	80	82	79	75	72	61	59	57	45	44	43	31	30	29			22
2	84	76	70	65	74	68	63	59	53	50	47	39	37	35	27	25	24			18
3	76	67	60	54	68	60	54	49	47	42	39	35	32	29	23	22	20			15
4	69	59	51	45	62	53	46	41	41	37	33	31	27	25	21	19	17			13
5	64	52	44	38	57	47	40	35	37	32	28	27	24	21	19	16	15			11
6	58	47	39	33	52	42	35	30	33	28	24	25	21	18	17	15	13			10
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11			8
8	50	38	30	25	44	34	27	23	27	22	19	20	17	14	14	12	10			7
9	46	34	27	22	41	31	25	20	25	20	16	19	15	13	13	11	9			7
10	43	31	24	20	38	28	22	18	23	18	15	17	14	11	12	10	8			6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5642	5642	5642
5°	5658	5495	5505
10°	5621	5387	5372
15°	5568	5266	5221
20°	5490	5133	5075
25°	5403	4988	4917
30°	5307	4845	4756
35°	5200	4698	4613
40°	5114	4557	4465
45°	4986	4424	4334
50°	4877	4274	4196
55°	4765	4129	4037
60°	4591	3949	3887
65°	4399	3754	3706
70°	4165	3531	3498
75°	3841	3285	3299
80°	3475	3032	3092
85°	2991	2780	2924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 5545 cd/sqm

TEST NUMBER: P1033599

CATALOG NUMBER: S124DIW-B575D1560UB30-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	0.8
10°-20°	187.8	2.4
20°-30°	284.0	3.6
30°-40°	343.6	4.4
40°-50°	363.2	4.6
50°-60°	341.9	4.4
60°-70°	283.7	3.6
70°-80°	199.1	2.5
80°-90°	116.5	1.5
90°-100°	195.8	2.5
100°-110°	435.7	5.5
110°-120°	689.3	8.8
120°-130°	884.0	11.3
130°-140°	979.9	12.5
140°-150°	956.8	12.2
150°-160°	803.4	10.2
160°-170°	534.5	6.8
170°-180°	187.2	2.4
0°-30°	537.4	6.8
0°-40°	881.0	11.2
0°-60°	1586.1	20.2
0°-90°	2185.3	27.8
90°-120°	1320.8	16.8
90°-150°	4141.5	52.7
90°-180°	5667.0	72.2
0°-180°	7852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	693	690	685	691	690	66
15°	664	665	662	669	669	187
25°	608	612	614	623	624	280
35°	532	541	549	559	562	333
45°	443	458	473	486	490	343
55°	347	363	387	402	407	309
65°	240	265	291	311	317	238
75°	133	162	194	216	223	142
85°	41	74	108	132	140	43
90°	17	65	110	142	151	15
95°	102	141	184	209	216	107
105°	364	380	415	439	450	386
115°	672	679	700	716	720	663
125°	975	974	992	1003	1005	869
135°	1254	1264	1269	1278	1278	971
145°	1523	1528	1530	1533	1532	953
155°	1744	1744	1743	1749	1743	803
165°	1899	1894	1891	1900	1894	535
175°	1975	1968	1966	1977	1966	188
180°	1978	1978	1978	1978	1978	

TEST NUMBER: P1033599

CATALOG NUMBER: S124DIW-B575D1560UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	691.9	691.9	691.9	691.9	691.9
2.5°	695.0	692.7	686.5	691.9	691.1
5°	692.7	690.4	684.9	691.1	690.4
7.5°	688.0	686.5	681.8	688.8	688.0
10°	681.8	681.1	677.2	684.2	683.4
12.5°	673.3	673.3	671.0	677.2	677.2
15°	664.0	664.8	662.5	669.4	668.7
17.5°	651.6	653.9	653.2	660.1	659.4
20°	638.4	640.8	641.5	649.3	649.3
22.5°	623.7	626.8	628.4	636.1	637.7
25°	607.5	612.1	614.4	623.0	623.7
27.5°	589.6	596.6	599.7	607.5	608.2
30°	571.8	578.0	583.4	592.0	593.5
32.5°	552.4	560.2	566.4	576.5	578.0
35°	531.5	540.8	548.6	559.4	561.7
37.5°	510.6	521.4	530.7	541.6	543.9
40°	490.5	500.5	511.4	523.0	526.1
42.5°	467.2	478.8	492.0	505.2	507.5
45°	443.2	457.9	472.6	485.8	489.7
47.5°	420.7	435.4	452.5	465.7	470.3
50°	395.9	413.0	430.0	445.5	450.2
52.5°	371.1	388.2	408.3	423.8	428.5
55°	347.1	363.4	386.6	402.1	406.8
57.5°	320.0	340.1	362.6	381.2	385.1
60°	293.7	313.8	339.4	357.2	363.4
62.5°	268.1	290.6	316.1	333.9	340.1
65°	240.2	265.0	291.3	310.7	316.9
67.5°	213.8	240.2	268.1	287.5	293.7
70°	186.7	213.1	242.5	263.4	268.9
72.5°	160.4	187.5	219.3	239.4	245.6
75°	133.3	161.9	194.5	216.2	223.1
77.5°	107.7	137.9	172.0	193.7	201.5
80°	84.5	115.4	149.5	172.8	179.0
82.5°	61.2	93.8	127.8	151.9	158.8
85°	41.1	73.6	108.5	131.7	139.5
87.5°	25.6	57.3	91.4	113.9	120.9
90°	17.0	64.8	110.4	142.0	151.3
92.5°	51.4	98.4	139.4	165.7	173.4
95°	101.9	141.2	183.7	209.2	216.2
97.5°	156.2	190.9	234.9	261.2	268.2
100°	222.7	249.0	293.0	316.9	322.3
102.5°	293.1	311.7	353.3	378.1	385.9
105°	363.5	380.5	415.2	439.2	450.0
107.5°	438.4	453.1	481.8	507.2	511.2
110°	514.1	528.0	553.7	568.4	579.2

TEST NUMBER: P1033599

CATALOG NUMBER: S124DIW-B575D1560UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	592.9	602.2	624.7	641.7	647.9
115°	671.6	678.6	700.4	716.0	719.8
117.5°	746.6	751.3	773.0	784.7	786.3
120°	820.9	829.3	847.2	855.1	864.3
122.5°	898.9	900.4	919.8	930.7	928.5
125°	974.6	973.8	991.7	1003.3	1005.0
127.5°	1043.5	1047.2	1059.7	1070.6	1074.5
130°	1116.1	1119.9	1132.3	1143.2	1141.7
132.5°	1191.1	1193.3	1201.1	1211.2	1214.4
135°	1254.5	1263.7	1269.2	1278.5	1278.5
137.5°	1326.4	1330.3	1336.5	1343.5	1348.9
140°	1398.3	1400.7	1401.4	1410.0	1412.3
142.5°	1463.4	1466.5	1464.1	1472.6	1475.7
145°	1523.1	1528.4	1529.9	1533.0	1531.5
147.5°	1584.3	1591.1	1589.6	1588.9	1590.4
150°	1639.4	1644.7	1644.7	1644.7	1643.1
152.5°	1690.6	1693.6	1695.2	1699.8	1695.2
155°	1744.1	1744.1	1742.6	1748.7	1742.6
157.5°	1790.0	1787.0	1787.0	1791.5	1787.0
160°	1829.8	1828.3	1826.7	1831.3	1823.7
162.5°	1866.5	1861.9	1860.4	1869.6	1861.9
165°	1898.6	1894.1	1891.0	1900.2	1894.1
167.5°	1924.7	1918.5	1918.5	1927.7	1918.5
170°	1946.1	1938.4	1939.9	1949.1	1938.4
172.5°	1961.4	1955.2	1955.2	1966.0	1955.2
175°	1975.1	1967.5	1966.0	1976.7	1966.0
177.5°	1981.3	1973.6	1973.6	1984.3	1972.1
180°	1978.2	1978.2	1978.2	1978.2	1978.2

(END OF REPORT)