

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: P1033945

Luminaire Tested: S124RDIW-B1195D1340UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033945
REPORT IS A COMBINATION OF REPORTS P1000087 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B1195D1340UB27-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

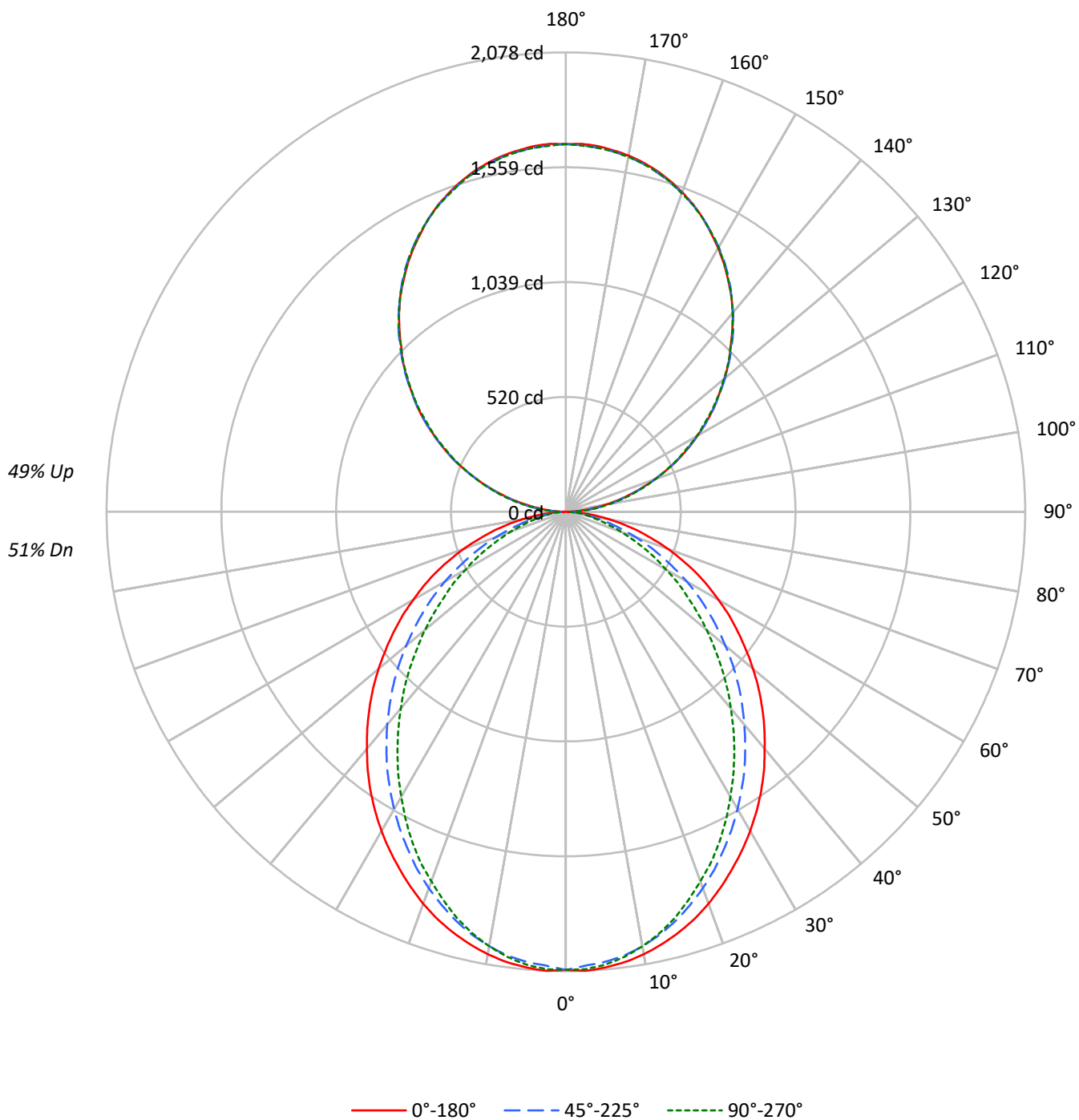
Lumens per Lamp: N/A
Luminaire Lumens: 9406.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 103.4
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: P1033945

CATALOG NUMBER: S124RDIW-B1195D1340UB27-4F0-XX-W2A-F1

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	98	94	90	87	91	87	84	81	74	72	69	62	60	59	51	50	49
2	90	82	76	71	83	76	71	67	65	61	58	55	52	49	45	43	41
3	82	73	65	60	75	67	61	56	58	53	49	49	45	42	40	38	36
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31
5	69	58	50	44	64	54	46	41	46	41	36	39	35	32	33	29	27
6	64	52	44	38	59	48	41	36	42	36	32	35	31	28	30	26	24
7	59	47	39	33	54	44	37	32	38	32	28	32	28	25	27	24	21
8	55	43	35	30	51	40	33	28	35	29	25	30	25	22	25	22	19
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16898	16898	16898
5°	16899	16395	16397
10°	16756	15878	15689
15°	16525	15234	14854
20°	16223	14500	13902
25°	15847	13707	12972
30°	15479	12899	11927
35°	15073	12079	10906
40°	14590	11197	9857
45°	14138	10322	8818
50°	13624	9367	7764
55°	13068	8387	6675
60°	12451	7347	5600
65°	11856	6154	4565
70°	11010	4899	3488
75°	9922	3563	2440
80°	8287	2188	1753
85°	6236	1261	964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14138 cd/sqm

TEST NUMBER: P1033945

CATALOG NUMBER: S124RDIW-B1195D1340UB27-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.9	2.1
10°-20°	543.3	5.8
20°-30°	784.4	8.3
30°-40°	889.0	9.5
40°-50°	858.3	9.1
50°-60°	713.6	7.6
60°-70°	492.5	5.2
70°-80°	248.9	2.6
80°-90°	66.7	0.7
90°-100°	108.4	1.2
100°-110°	324.7	3.5
110°-120°	551.6	5.9
120°-130°	727.5	7.7
130°-140°	817.1	8.7
140°-150°	803.1	8.5
150°-160°	675.4	7.2
160°-170°	449.4	4.8
170°-180°	157.4	1.7
0°-30°	1522.5	16.2
0°-40°	2411.5	25.6
0°-60°	3983.4	42.3
0°-90°	4791.5	50.9
90°-120°	984.7	10.5
90°-150°	3332.3	35.4
90°-180°	4614.0	49.1
0°-180°	9406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2072	2072	2072	2072	2072	
5°	2069	2063	2044	2060	2056	196
15°	1971	1956	1917	1914	1902	555
25°	1782	1753	1688	1661	1645	821
35°	1541	1490	1410	1357	1328	963
45°	1257	1198	1103	1025	996	969
55°	952	888	785	703	673	852
65°	647	579	478	409	390	639
75°	344	286	211	174	165	363
85°	86	54	49	46	46	94
90°	4	18	28	36	39	11
95°	77	89	98	102	102	84
105°	300	301	306	310	314	318
115°	561	561	558	557	556	553
125°	817	817	816	813	810	728
135°	1053	1061	1061	1059	1055	815
145°	1280	1285	1286	1285	1281	801
155°	1466	1466	1465	1470	1465	675
165°	1596	1592	1590	1598	1592	450
175°	1660	1654	1653	1662	1653	158
180°	1663	1663	1663	1663	1663	

TEST NUMBER: P1033945

CATALOG NUMBER: S124RDIW-B1195D1340UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2072.2	2072.2	2072.2	2072.2	2072.2
2.5°	2078.5	2072.2	2054.7	2072.2	2070.6
5°	2069.0	2062.7	2043.6	2059.5	2056.3
7.5°	2054.7	2048.4	2024.6	2035.7	2030.9
10°	2032.5	2024.6	1996.0	2002.4	1996.0
12.5°	2004.0	1994.4	1959.5	1962.7	1953.2
15°	1970.6	1956.4	1916.7	1913.5	1902.4
17.5°	1932.6	1911.9	1865.9	1858.0	1842.1
20°	1886.5	1865.9	1812.0	1799.3	1778.7
22.5°	1835.8	1812.0	1753.3	1732.6	1716.8
25°	1781.8	1753.3	1688.2	1661.2	1645.4
27.5°	1726.3	1691.4	1623.2	1591.4	1569.2
30°	1667.6	1627.9	1553.3	1513.7	1488.3
32.5°	1605.7	1559.7	1481.9	1434.3	1410.5
35°	1540.7	1489.9	1410.5	1356.6	1328.0
37.5°	1472.4	1420.1	1332.8	1274.1	1245.5
40°	1399.4	1347.1	1256.6	1190.0	1161.4
42.5°	1329.6	1274.1	1178.9	1110.7	1080.5
45°	1256.6	1197.9	1102.7	1025.0	996.4
47.5°	1182.1	1121.8	1023.4	942.5	910.7
50°	1105.9	1044.0	942.5	863.1	833.0
52.5°	1028.2	967.9	863.1	782.2	750.5
55°	952.0	888.5	785.4	702.9	672.7
57.5°	877.4	810.8	709.2	625.1	602.9
60°	796.5	733.0	631.5	549.0	523.6
62.5°	723.5	656.9	552.2	477.6	458.5
65°	647.4	579.1	477.6	409.4	390.3
67.5°	568.0	503.0	407.8	347.5	325.3
70°	493.5	426.8	336.4	284.0	268.1
72.5°	414.1	355.4	271.3	228.5	214.2
75°	344.3	285.6	211.0	174.5	165.0
77.5°	271.3	220.5	157.1	131.7	128.5
80°	201.5	155.5	107.9	103.1	101.5
82.5°	141.2	100.0	77.7	74.6	73.0
85°	85.7	53.9	49.2	46.0	46.0
87.5°	36.5	23.8	22.2	20.6	22.2
90°	3.9	18.0	28.3	36.0	38.6
92.5°	33.4	50.2	56.6	60.5	61.7
95°	77.2	88.7	97.8	101.6	101.6
97.5°	123.5	133.8	144.1	149.2	149.2
100°	180.1	185.2	196.8	199.4	199.4
102.5°	239.2	240.5	250.8	254.7	256.0
105°	299.7	301.0	306.1	310.0	313.8
107.5°	362.7	364.0	365.3	370.4	369.1
110°	427.0	429.6	428.3	425.7	429.6

TEST NUMBER: P1033945

CATALOG NUMBER: S124RDIW-B1195D1340UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	493.9	493.9	491.3	491.3	491.3
115°	560.8	560.8	558.2	556.9	555.6
117.5°	623.8	623.8	622.5	618.7	614.8
120°	686.8	692.0	688.1	681.7	684.3
122.5°	752.4	753.7	752.4	748.6	742.1
125°	816.8	816.8	815.5	812.9	810.3
127.5°	874.6	878.5	875.9	873.3	872.1
130°	936.4	940.2	940.2	937.7	932.5
132.5°	999.4	1002.0	1000.7	998.1	996.8
135°	1053.4	1061.1	1061.1	1058.6	1054.7
137.5°	1113.9	1117.7	1120.3	1116.4	1117.7
140°	1174.3	1176.9	1176.9	1175.6	1174.3
142.5°	1229.6	1232.2	1230.9	1230.9	1230.9
145°	1279.8	1284.9	1286.2	1284.9	1281.1
147.5°	1331.2	1337.7	1336.4	1335.1	1333.8
150°	1377.5	1382.7	1382.7	1382.7	1381.4
152.5°	1421.3	1423.8	1425.1	1429.0	1425.1
155°	1466.3	1466.3	1465.0	1470.2	1465.0
157.5°	1504.9	1502.3	1502.3	1506.2	1502.3
160°	1538.3	1537.0	1535.7	1539.6	1533.2
162.5°	1569.2	1565.3	1564.0	1571.8	1565.3
165°	1596.2	1592.3	1589.8	1597.5	1592.3
167.5°	1618.1	1612.9	1612.9	1620.6	1612.9
170°	1636.1	1629.6	1630.9	1638.6	1629.6
172.5°	1648.9	1643.8	1643.8	1652.8	1643.8
175°	1660.5	1654.1	1652.8	1661.8	1652.8
177.5°	1665.7	1659.2	1659.2	1668.2	1657.9
180°	1663.1	1663.1	1663.1	1663.1	1663.1

(END OF REPORT)