

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: P1032786

Luminaire Tested: S124DIW-B795D1340UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032786
REPORT IS A COMBINATION OF REPORTS P998024 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B795D1340UB2750-4F0-XX-W2A-D_3000K
Description: Define 4 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

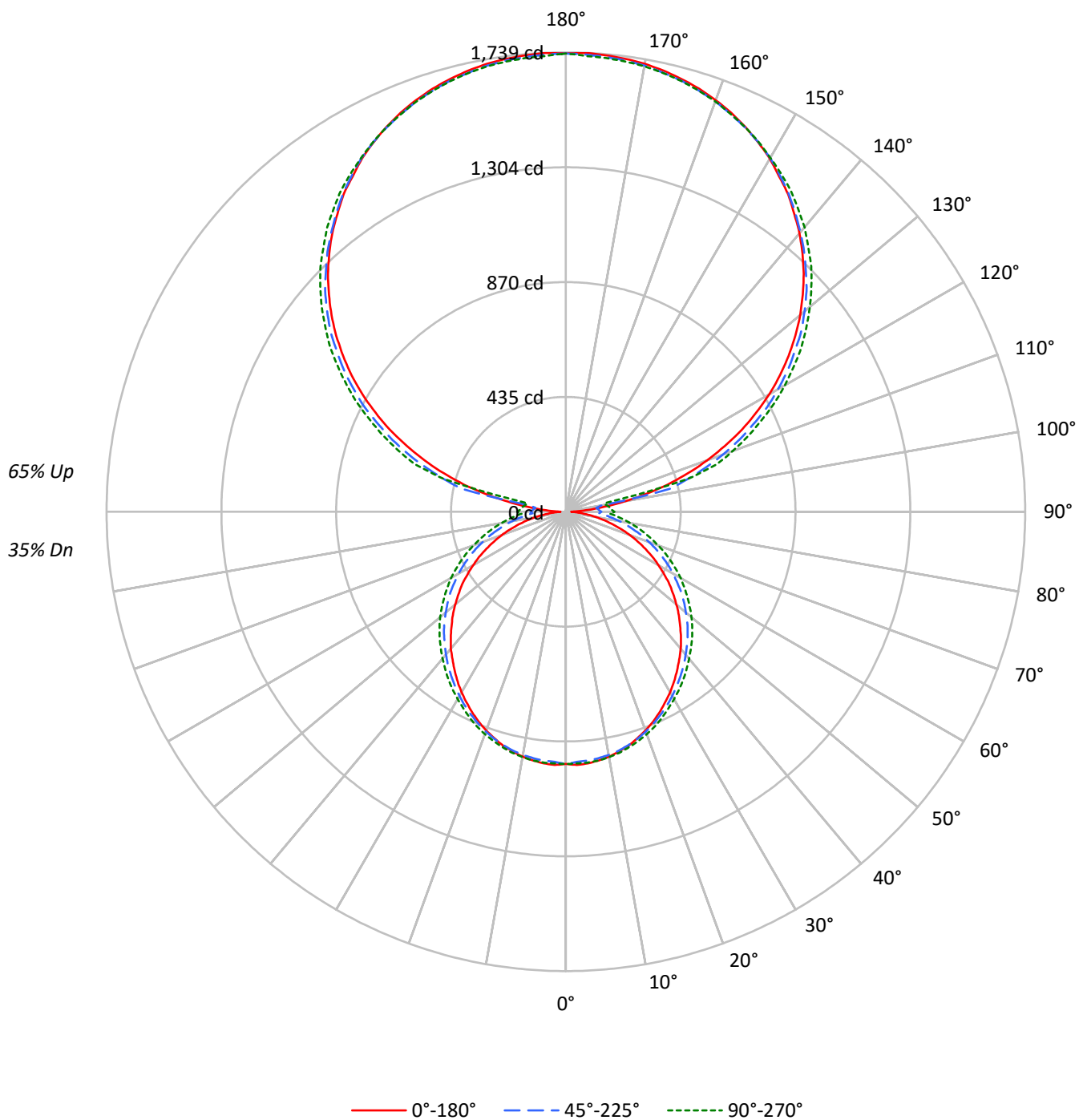
Lumens per Lamp: N/A
Luminaire Lumens: 8628.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 78
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: P1032786

CATALOG NUMBER: S124DIW-B795D1340UB2750-4F0-XX-W2A-D_3000K

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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	28	28	28
1	94	89	85	81	84	81	77	74	65	62	60	50	48	47	36	35	34	23	22	21
2	85	77	71	66	76	70	65	60	56	52	49	43	41	38	31	30	28	19	18	17
3	77	68	60	54	69	61	55	50	49	45	41	38	35	32	28	25	24	16	15	14
4	71	60	52	46	63	54	47	42	43	38	34	34	30	27	24	22	20	12	11	10
5	65	53	45	39	58	48	41	36	39	33	29	30	26	23	22	19	17	9	8	7
6	59	47	39	33	53	43	36	31	35	29	25	27	23	20	20	17	15	6	5	4
7	55	43	35	29	49	39	32	27	31	26	22	24	21	18	18	15	13	3	2	1
8	51	38	31	26	46	35	28	24	28	23	20	22	19	16	17	14	12			
9	47	35	28	23	42	32	25	21	26	21	17	20	17	14	15	13	11			
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7788	7788	7788
5°	7809	7585	7599
10°	7758	7435	7414
15°	7686	7268	7206
20°	7578	7086	7005
25°	7457	6886	6787
30°	7325	6687	6565
35°	7177	6485	6367
40°	7059	6289	6162
45°	6882	6107	5982
50°	6732	5899	5791
55°	6577	5698	5572
60°	6336	5450	5365
65°	6071	5181	5115
70°	5749	4874	4828
75°	5300	4533	4554
80°	4796	4186	4267
85°	4126	3836	4035

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6882 cd/sqm

TEST NUMBER: P1032786

CATALOG NUMBER: S124DIW-B795D1340UB2750-4F0-XX-W2A-D_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	1.0
10°-20°	259.3	3.0
20°-30°	392.0	4.5
30°-40°	474.3	5.5
40°-50°	501.4	5.8
50°-60°	471.9	5.5
60°-70°	391.5	4.5
70°-80°	274.8	3.2
80°-90°	158.5	1.8
90°-100°	149.8	1.7
100°-110°	447.5	5.2
110°-120°	770.0	8.9
120°-130°	945.2	11.0
130°-140°	994.7	11.5
140°-150°	921.9	10.7
150°-160°	741.7	8.6
160°-170°	478.3	5.5
170°-180°	164.8	1.9
0°-30°	741.8	8.6
0°-40°	1216.0	14.1
0°-60°	2189.2	25.4
0°-90°	3014.0	34.9
90°-120°	1367.4	15.8
90°-150°	4229.2	49.0
90°-180°	5614.0	65.1
0°-180°	8628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	956	953	945	954	953	91
15°	916	918	914	924	923	258
25°	838	845	848	860	861	386
35°	734	746	757	772	775	459
45°	612	632	652	670	676	473
55°	479	502	534	555	562	427
65°	332	366	402	429	437	329
75°	184	224	268	298	308	195
85°	57	102	150	182	192	59
90°	21	78	134	173	184	15
95°	85	76	122	158	169	99
105°	400	429	476	514	476	420
115°	736	749	782	808	816	725
125°	1029	1034	1058	1082	1090	920
135°	1274	1272	1285	1305	1314	982
145°	1467	1470	1470	1478	1485	917
155°	1608	1609	1605	1610	1606	741
165°	1696	1690	1690	1700	1688	479
175°	1735	1727	1728	1740	1724	165
180°	1735	1735	1735	1735	1735	

TEST NUMBER: P1032786

CATALOG NUMBER: S124DIW-B795D1340UB2750-4F0-XX-W2A-D_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	955.0	955.0	955.0	955.0	955.0
2.5°	959.3	956.1	947.5	955.0	953.9
5°	956.1	952.9	945.4	953.9	952.9
7.5°	949.7	947.5	941.1	950.7	949.7
10°	941.1	940.0	934.7	944.3	943.2
12.5°	929.3	929.3	926.1	934.7	934.7
15°	916.5	917.6	914.4	924.0	922.9
17.5°	899.4	902.6	901.5	911.2	910.1
20°	881.2	884.4	885.5	896.2	896.2
22.5°	860.9	865.2	867.3	878.0	880.1
25°	838.4	844.9	848.1	859.8	860.9
27.5°	813.8	823.5	827.7	838.4	839.5
30°	789.2	797.8	805.3	817.0	819.2
32.5°	762.5	773.2	781.8	795.7	797.8
35°	733.6	746.5	757.2	772.1	775.3
37.5°	704.8	719.7	732.6	747.5	750.7
40°	677.0	690.9	705.8	721.9	726.1
42.5°	644.9	660.9	679.1	697.3	700.5
45°	611.7	632.0	652.4	670.5	675.9
47.5°	580.7	601.0	624.5	642.7	649.1
50°	546.5	570.0	593.5	614.9	621.3
52.5°	512.3	535.8	563.6	585.0	591.4
55°	479.1	501.6	533.6	555.0	561.5
57.5°	441.7	469.5	500.5	526.2	531.5
60°	405.3	433.1	468.4	493.0	501.6
62.5°	370.0	401.0	436.3	460.9	469.5
65°	331.5	365.7	402.1	428.8	437.4
67.5°	295.2	331.5	370.0	396.8	405.3
70°	257.7	294.1	334.7	363.6	371.1
72.5°	221.4	258.8	302.6	330.5	339.0
75°	183.9	223.5	268.4	298.4	308.0
77.5°	148.7	190.4	237.4	267.4	278.1
80°	116.6	159.3	206.4	238.5	247.0
82.5°	84.5	129.4	176.5	209.6	219.2
85°	56.7	101.6	149.7	181.8	192.5
87.5°	35.3	79.1	126.2	157.2	166.8
90°	21.0	78.1	134.4	173.2	184.3
92.5°	35.5	70.4	126.7	164.4	173.0
95°	85.3	76.4	121.5	158.2	169.1
97.5°	149.0	208.6	116.2	150.5	161.4
100°	224.6	275.8	138.4	145.2	153.9
102.5°	310.3	349.3	405.5	141.3	149.9
105°	400.2	429.4	475.5	513.8	475.7
107.5°	484.5	506.6	553.1	586.4	599.1
110°	569.2	588.0	633.2	660.4	672.8

TEST NUMBER: P1032786

CATALOG NUMBER: S124DIW-B795D1340UB2750-4F0-XX-W2A-D_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	651.1	671.7	709.6	731.8	745.6
115°	735.7	749.2	782.2	808.2	815.7
117.5°	812.2	823.8	859.8	881.0	889.5
120°	889.0	897.5	927.2	951.2	957.1
122.5°	961.6	964.2	995.7	1018.4	1023.3
125°	1029.4	1033.5	1057.6	1081.9	1089.6
127.5°	1095.6	1095.8	1123.7	1141.6	1147.8
130°	1158.1	1158.3	1179.3	1199.9	1206.3
132.5°	1216.5	1218.0	1236.1	1255.6	1260.7
135°	1273.8	1272.5	1285.2	1304.8	1313.9
137.5°	1325.7	1324.7	1335.4	1354.0	1358.1
140°	1376.3	1377.9	1381.5	1399.3	1406.0
142.5°	1420.7	1425.9	1426.1	1440.5	1444.7
145°	1467.4	1470.2	1470.2	1477.9	1484.8
147.5°	1503.7	1510.4	1509.1	1511.5	1517.0
150°	1544.0	1548.1	1546.8	1546.8	1548.1
152.5°	1576.6	1580.5	1577.9	1580.5	1579.2
155°	1607.7	1609.0	1605.1	1610.3	1606.4
157.5°	1635.0	1635.0	1629.8	1636.3	1629.8
160°	1658.3	1654.5	1653.2	1660.9	1653.2
162.5°	1679.1	1673.9	1672.6	1680.4	1671.3
165°	1696.0	1689.5	1689.5	1699.9	1688.2
167.5°	1710.3	1703.8	1702.5	1714.1	1701.2
170°	1721.9	1714.1	1715.4	1725.8	1712.8
172.5°	1729.7	1721.9	1723.2	1733.6	1719.3
175°	1734.9	1727.1	1728.4	1740.1	1724.5
177.5°	1738.8	1729.7	1732.3	1742.7	1727.1
180°	1734.9	1734.9	1734.9	1734.9	1734.9

(END OF REPORT)