

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: P1033716

Luminaire Tested: S124DIW-B795D1340UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033716
REPORT IS A COMBINATION OF REPORTS P998039 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B795D1340UB30-4F0-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

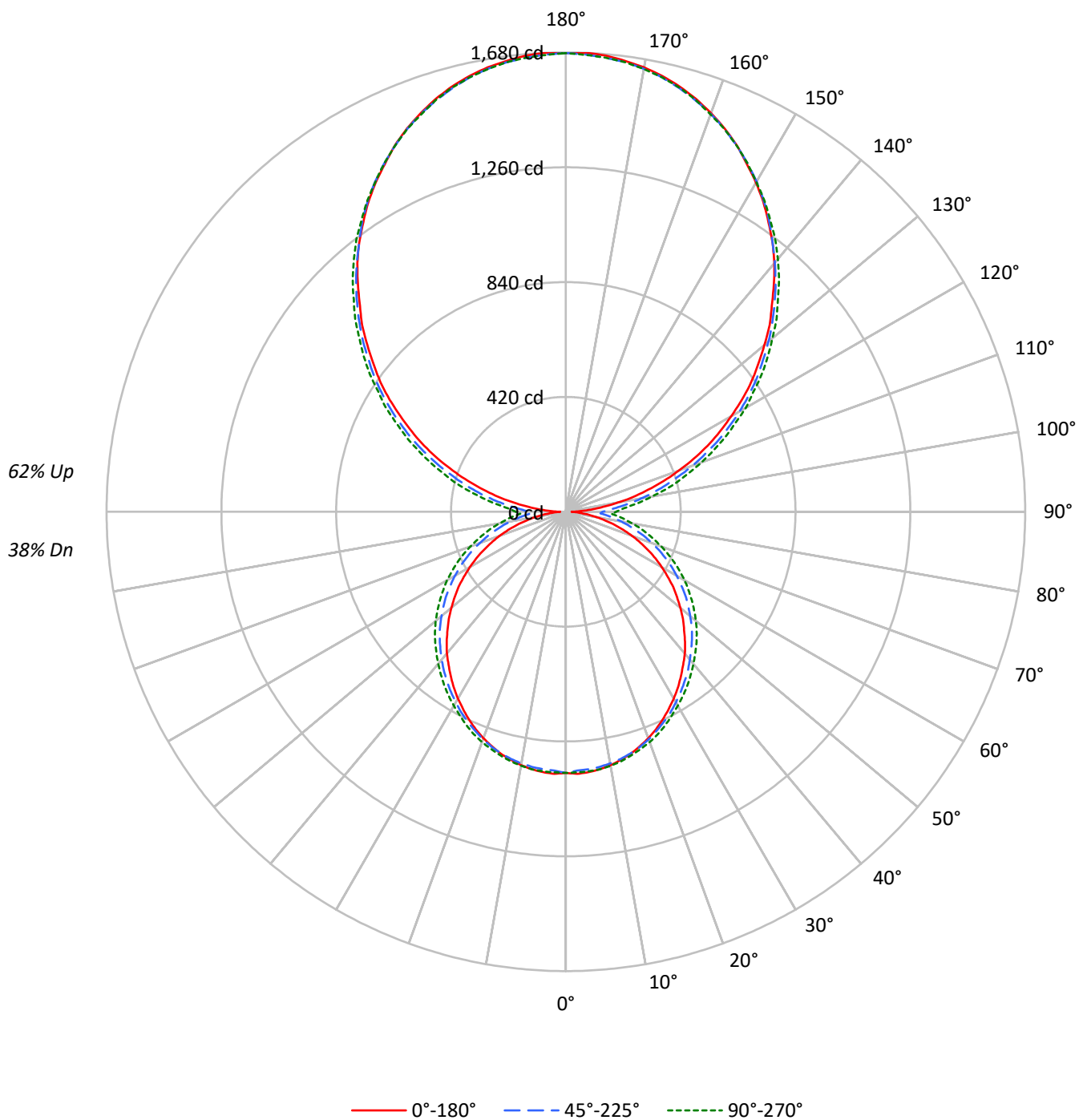
Lumens per Lamp: N/A
Luminaire Lumens: 7914.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1033716

CATALOG NUMBER: S124DIW-B795D1340UB30-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1033716

CATALOG NUMBER: S124DIW-B795D1340UB30-4F0-XX-W2A-D1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																					
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38			
1	94	90	86	82	85	81	78	75	66	64	61	52	50	49	39	38	37	30			
2	86	78	72	66	77	71	65	61	57	53	50	45	42	40	34	32	30	25			
3	78	68	61	55	70	62	55	50	50	46	42	39	36	33	29	27	25	21			
4	71	60	52	46	64	55	48	42	44	39	35	35	31	28	26	24	22	18			
5	65	53	45	39	59	49	41	36	40	34	30	31	27	24	23	21	19	15			
6	60	48	40	34	54	43	36	31	36	30	26	28	24	21	21	18	16	13			
7	55	43	35	29	50	39	32	27	32	27	23	25	22	19	19	16	14	12			
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	18	15	13	10			
9	47	35	28	23	43	32	26	21	27	21	18	21	17	15	16	14	11	9			
10	44	32	25	20	40	30	23	19	24	19	16	20	16	13	15	12	10	8			

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: P1033716

CATALOG NUMBER: S124DIW-B795D1340UB30-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	1.1
10°-20°	259.3	3.3
20°-30°	392.0	5.0
30°-40°	474.3	6.0
40°-50°	501.4	6.3
50°-60°	471.9	6.0
60°-70°	391.5	4.9
70°-80°	274.8	3.5
80°-90°	158.5	2.0
90°-100°	201.6	2.5
100°-110°	395.8	5.0
110°-120°	602.2	7.6
120°-130°	759.6	9.6
130°-140°	835.3	10.6
140°-150°	812.2	10.3
150°-160°	681.3	8.6
160°-170°	453.3	5.7
170°-180°	158.7	2.0
0°-30°	741.8	9.4
0°-40°	1216.0	15.4
0°-60°	2189.2	27.7
0°-90°	3014.0	38.1
90°-120°	1199.6	15.2
90°-150°	3606.7	45.6
90°-180°	4900.0	61.9
0°-180°	7914.0	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	17
95°	92	139	192	224	234	95
105°	312	335	379	410	422	331
115°	572	582	613	636	642	565
125°	828	827	852	870	874	738
135°	1065	1072	1080	1094	1097	824
145°	1292	1296	1297	1302	1303	809
155°	1479	1479	1478	1483	1478	681
165°	1610	1606	1604	1611	1606	454
175°	1675	1668	1667	1676	1667	159
180°	1678	1678	1678	1678	1678	

TEST NUMBER: P1033716

CATALOG NUMBER: S124DIW-B795D1340UB30-4F0-XX-W2A-D1

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°	49.7	104.1	156.6	190.4	200.3
95°	91.7	138.7	191.6	224.4	234.0
97.5°	137.3	178.7	233.0	266.0	275.6
100°	193.4	226.4	279.8	311.3	318.7
102.5°	253.1	277.9	328.9	360.6	370.5
105°	311.9	334.6	379.4	410.0	422.5
107.5°	375.5	395.0	433.7	465.6	471.8
110°	439.3	456.8	493.0	515.0	527.4

TEST NUMBER: P1033716

CATALOG NUMBER: S124DIW-B795D1340UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	505.7	518.5	551.2	574.7	583.3
115°	572.0	581.6	613.4	635.6	641.8
117.5°	635.6	642.0	672.8	691.4	696.0
120°	698.1	706.6	733.7	748.6	759.7
122.5°	764.3	765.6	793.2	810.7	811.7
125°	828.1	827.0	852.4	870.2	874.0
127.5°	886.5	889.3	908.1	924.7	930.9
130°	947.7	950.5	967.6	984.3	985.5
132.5°	1011.2	1012.7	1024.3	1040.0	1045.1
135°	1064.6	1072.4	1079.9	1094.4	1097.0
137.5°	1125.6	1128.5	1135.3	1147.5	1154.1
140°	1186.6	1188.2	1189.2	1201.8	1205.9
142.5°	1241.4	1244.0	1241.6	1253.4	1257.6
145°	1292.0	1296.1	1297.4	1302.5	1302.9
147.5°	1343.9	1349.3	1348.0	1347.8	1350.7
150°	1390.6	1394.7	1394.7	1394.7	1393.4
152.5°	1433.6	1436.2	1437.5	1441.4	1437.5
155°	1479.0	1479.0	1477.7	1482.9	1477.7
157.5°	1517.9	1515.3	1515.3	1519.2	1515.3
160°	1551.6	1550.3	1549.0	1552.9	1546.5
162.5°	1582.8	1578.9	1577.6	1585.4	1578.9
165°	1610.0	1606.1	1603.5	1611.3	1606.1
167.5°	1632.1	1626.9	1626.9	1634.7	1626.9
170°	1650.2	1643.8	1645.1	1652.8	1643.8
172.5°	1663.2	1658.0	1658.0	1667.1	1658.0
175°	1674.9	1668.4	1667.1	1676.2	1667.1
177.5°	1680.1	1673.6	1673.6	1682.7	1672.3
180°	1677.5	1677.5	1677.5	1677.5	1677.5

(END OF REPORT)