

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: P1026665

Luminaire Tested: S124RDIP-B795D810UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026665
REPORT IS A COMBINATION OF REPORTS P999805 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B795D810UB35-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

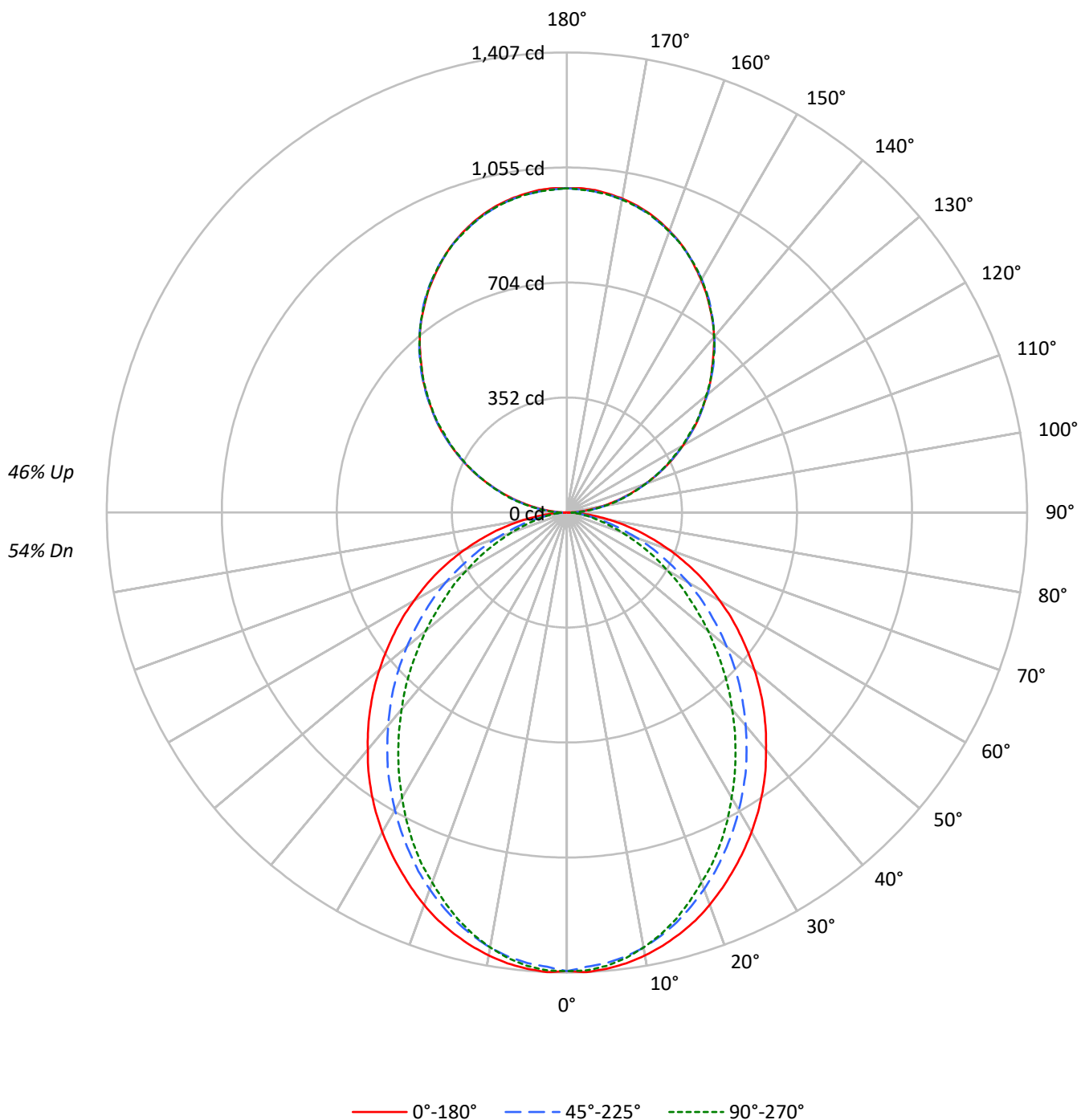
Lumens per Lamp: N/A
Luminaire Lumens: 5994.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
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: P1026665

CATALOG NUMBER: S124RDIP-B795D810UB35-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1026665

CATALOG NUMBER: S124RDIP-B795D810UB35-4F0-XX-W2A-F1

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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60
1	99	95	91	88	92	88	85	82	76	73	71	64	62	61	53	52	51
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	47	45	44
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	32
5	70	58	50	44	64	54	47	42	47	42	37	40	36	33	34	31	28
6	64	52	44	38	59	49	42	36	43	37	33	37	32	29	31	28	25
7	59	47	39	34	55	44	37	32	39	33	29	33	29	26	29	25	22
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20
9	51	39	32	27	48	37	30	26	32	27	23	28	24	21	24	21	18
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11438	11438	11438
5°	11439	11098	11099
10°	11342	10748	10620
15°	11186	10312	10055
20°	10982	9815	9410
25°	10727	9279	8781
30°	10478	8732	8073
35°	10203	8177	7382
40°	9877	7579	6672
45°	9570	6987	5970
50°	9222	6341	5256
55°	8846	5677	4519
60°	8429	4974	3790
65°	8025	4166	3090
70°	7451	3316	2361
75°	6717	2412	1652
80°	5610	1481	1187
85°	4221	853	652

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9570 cd/sqm

TEST NUMBER: P1026665

CATALOG NUMBER: S124RDIP-B795D810UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	2.2
10°-20°	367.8	6.1
20°-30°	530.9	8.9
30°-40°	601.7	10.0
40°-50°	581.0	9.7
50°-60°	483.0	8.1
60°-70°	333.4	5.6
70°-80°	168.5	2.8
80°-90°	44.9	0.7
90°-100°	64.6	1.1
100°-110°	193.6	3.2
110°-120°	328.8	5.5
120°-130°	433.7	7.2
130°-140°	487.1	8.1
140°-150°	478.7	8.0
150°-160°	402.7	6.7
160°-170°	267.9	4.5
170°-180°	93.8	1.6
0°-30°	1030.6	17.2
0°-40°	1632.3	27.2
0°-60°	2696.4	45.0
0°-90°	3243.1	54.1
90°-120°	587.0	9.8
90°-150°	1986.5	33.1
90°-180°	2751.0	45.9
0°-180°	5994.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1400	1396	1383	1394	1392	133
15°	1334	1324	1297	1295	1288	376
25°	1206	1187	1143	1124	1114	556
35°	1043	1008	955	918	899	652
45°	851	811	746	694	674	656
55°	644	601	532	476	455	576
65°	438	392	323	277	264	433
75°	233	193	143	118	112	246
85°	58	36	33	31	31	64
90°	2	11	17	22	23	7
95°	46	53	58	61	61	50
105°	179	179	182	185	187	189
115°	334	334	333	332	331	330
125°	487	487	486	485	483	434
135°	628	633	633	631	629	486
145°	763	766	767	766	764	478
155°	874	874	873	876	873	402
165°	952	949	948	952	949	268
175°	990	986	985	991	985	94
180°	991	991	991	991	991	

TEST NUMBER: P1026665

CATALOG NUMBER: S124RDIP-B795D810UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1402.7	1402.7	1402.7	1402.7	1402.7
2.5°	1407.0	1402.7	1390.8	1402.7	1401.6
5°	1400.5	1396.2	1383.3	1394.1	1391.9
7.5°	1390.8	1386.6	1370.4	1378.0	1374.7
10°	1375.8	1370.4	1351.1	1355.4	1351.1
12.5°	1356.5	1350.0	1326.4	1328.6	1322.1
15°	1333.9	1324.3	1297.4	1295.3	1287.7
17.5°	1308.1	1294.2	1263.0	1257.7	1246.9
20°	1277.0	1263.0	1226.5	1217.9	1204.0
22.5°	1242.6	1226.5	1186.8	1172.8	1162.1
25°	1206.1	1186.8	1142.8	1124.5	1113.8
27.5°	1168.5	1144.9	1098.7	1077.2	1062.2
30°	1128.8	1101.9	1051.5	1024.6	1007.4
32.5°	1086.9	1055.8	1003.1	970.9	954.8
35°	1042.9	1008.5	954.8	918.3	898.9
37.5°	996.7	961.2	902.2	862.4	843.1
40°	947.3	911.8	850.6	805.5	786.2
42.5°	900.0	862.4	798.0	751.8	731.4
45°	850.6	810.9	746.4	693.8	674.5
47.5°	800.1	759.3	692.7	638.0	616.5
50°	748.6	706.7	638.0	584.3	563.9
52.5°	696.0	655.1	584.3	529.5	508.0
55°	644.4	601.4	531.6	475.8	455.4
57.5°	593.9	548.8	480.1	423.2	408.1
60°	539.2	496.2	427.5	371.6	354.4
62.5°	489.8	444.6	373.8	323.3	310.4
65°	438.2	392.0	323.3	277.1	264.2
67.5°	384.5	340.5	276.0	235.2	220.2
70°	334.0	288.9	227.7	192.2	181.5
72.5°	280.3	240.6	183.7	154.7	145.0
75°	233.1	193.3	142.8	118.1	111.7
77.5°	183.7	149.3	106.3	89.1	87.0
80°	136.4	105.3	73.0	69.8	68.7
82.5°	95.6	67.7	52.6	50.5	49.4
85°	58.0	36.5	33.3	31.1	31.1
87.5°	24.7	16.1	15.0	14.0	15.0
90°	2.3	10.7	16.9	21.5	23.0
92.5°	19.9	29.9	33.7	36.0	36.8
95°	46.0	52.9	58.3	60.6	60.6
97.5°	73.6	79.7	85.9	88.9	88.9
100°	107.3	110.4	117.3	118.9	118.9
102.5°	142.6	143.4	149.5	151.8	152.6
105°	178.7	179.4	182.5	184.8	187.1
107.5°	216.2	217.0	217.8	220.8	220.1
110°	254.6	256.1	255.3	253.8	256.1

TEST NUMBER: P1026665

CATALOG NUMBER: S124RDIP-B795D810UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	294.4	294.4	292.9	292.9	292.9
115°	334.3	334.3	332.8	332.0	331.2
117.5°	371.9	371.9	371.1	368.8	366.5
120°	409.5	412.5	410.2	406.4	407.9
122.5°	448.6	449.3	448.6	446.3	442.4
125°	486.9	486.9	486.1	484.6	483.1
127.5°	521.4	523.7	522.2	520.6	519.9
130°	558.2	560.5	560.5	559.0	555.9
132.5°	595.8	597.3	596.6	595.0	594.3
135°	628.0	632.6	632.6	631.1	628.8
137.5°	664.0	666.3	667.9	665.6	666.3
140°	700.1	701.6	701.6	700.8	700.1
142.5°	733.0	734.6	733.8	733.8	733.8
145°	762.9	766.0	766.8	766.0	763.7
147.5°	793.6	797.4	796.7	795.9	795.1
150°	821.2	824.3	824.3	824.3	823.5
152.5°	847.3	848.8	849.6	851.9	849.6
155°	874.1	874.1	873.4	876.4	873.4
157.5°	897.1	895.6	895.6	897.9	895.6
160°	917.1	916.3	915.5	917.8	914.0
162.5°	935.5	933.2	932.4	937.0	933.2
165°	951.6	949.3	947.7	952.3	949.3
167.5°	964.6	961.5	961.5	966.1	961.5
170°	975.3	971.5	972.3	976.9	971.5
172.5°	983.0	979.9	979.9	985.3	979.9
175°	989.9	986.1	985.3	990.7	985.3
177.5°	993.0	989.1	989.1	994.5	988.4
180°	991.4	991.4	991.4	991.4	991.4

(END OF REPORT)