

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: P1013441

Luminaire Tested: S124RDIP-B795D810UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1013441
REPORT IS A COMBINATION OF REPORTS P999792 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B795D810UB2750-4F0-XX-W2A-F_3500K
Description: Define 4 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

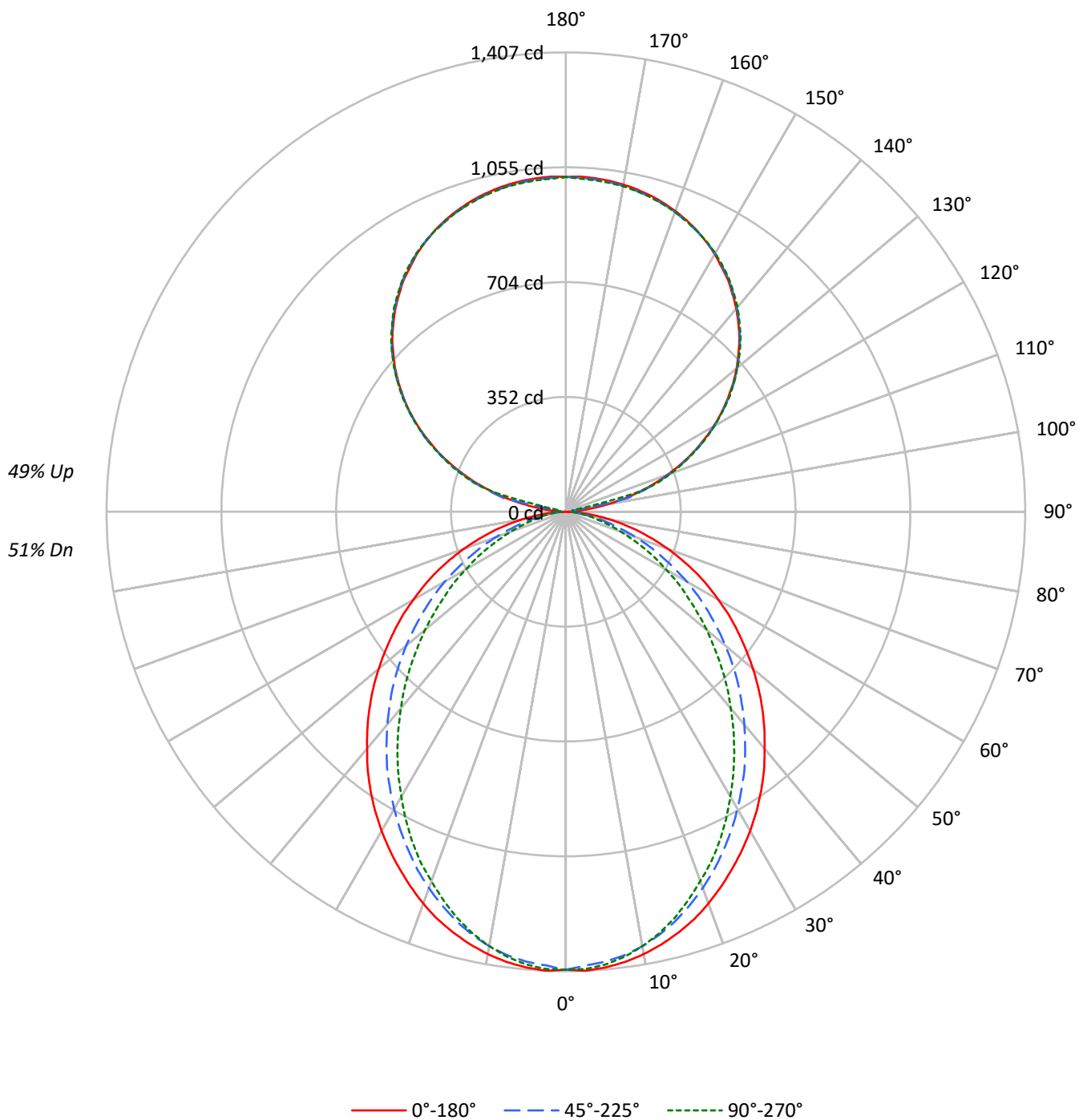
Lumens per Lamp: N/A
Luminaire Lumens: 6416.0 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1013441

CATALOG NUMBER: S124RDIP-B795D810UB2750-4F0-XX-W2A-F_3500K

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	71	69	62	60	59	50	49	48
2	90	82	76	71	83	76	71	67	65	61	58	54	52	49	45	43	41
3	82	73	65	60	75	67	61	56	57	53	49	48	45	42	40	37	35
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31
5	69	58	49	44	63	54	46	41	46	40	36	39	35	31	32	29	27
6	64	52	44	38	59	48	41	36	41	36	32	35	31	28	29	26	24
7	59	47	39	33	54	44	37	32	38	32	28	32	28	25	27	24	21
8	55	42	35	30	50	40	33	28	34	29	25	29	25	22	25	21	19
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17
10	48	36	28	24	44	33	27	23	29	24	20	25	21	18	21	18	16

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: P1013441

CATALOG NUMBER: S124RDIP-B795D810UB2750-4F0-XX-W2A-F_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	2.1
10°-20°	367.8	5.7
20°-30°	530.9	8.3
30°-40°	601.7	9.4
40°-50°	581.0	9.1
50°-60°	483.0	7.5
60°-70°	333.4	5.2
70°-80°	168.5	2.6
80°-90°	44.9	0.7
90°-100°	34.0	0.5
100°-110°	224.1	3.5
110°-120°	428.0	6.7
120°-130°	543.4	8.5
130°-140°	581.3	9.1
140°-150°	543.6	8.5
150°-160°	438.3	6.8
160°-170°	282.7	4.4
170°-180°	97.4	1.5
0°-30°	1030.6	16.1
0°-40°	1632.3	25.4
0°-60°	2696.4	42.0
0°-90°	3243.1	50.5
90°-120°	686.2	10.7
90°-150°	2354.4	36.7
90°-180°	3173.0	49.5
0°-180°	6416.0	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	6
95°	42	16	17	22	22	52
105°	231	235	239	246	219	242
115°	431	433	432	434	434	424
125°	606	609	607	610	610	541
135°	752	751	754	755	757	579
145°	867	869	869	870	871	542
155°	950	951	949	952	950	438
165°	1002	998	998	1005	998	283
175°	1025	1021	1022	1028	1019	98
180°	1025	1025	1025	1025	1025	

TEST NUMBER: P1013441

CATALOG NUMBER: S124RDIP-B795D810UB2750-4F0-XX-W2A-F_3500K

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°	11.5	10.0	16.1	20.7	20.7
95°	42.2	16.1	16.9	21.5	22.2
97.5°	80.5	97.4	16.9	20.7	21.5
100°	125.8	139.6	33.7	20.7	21.5
102.5°	176.4	185.6	194.8	22.2	22.2
105°	230.8	235.4	239.3	246.2	218.6
107.5°	280.7	283.0	288.4	292.2	295.3
110°	331.3	333.6	338.2	339.7	342.0



TEST NUMBER: P1013441

CATALOG NUMBER: S124RDIP-B795D810UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	380.4	385.0	386.5	385.8	388.8
115°	431.0	433.3	432.5	434.1	434.1
117.5°	476.3	479.3	481.6	480.9	480.9
120°	522.3	525.3	524.6	526.1	524.6
122.5°	565.2	566.8	568.3	569.1	567.5
125°	605.9	608.9	607.4	609.7	610.5
127.5°	645.0	645.8	649.6	648.8	648.1
130°	682.6	683.3	685.6	686.4	686.4
132.5°	717.1	718.6	721.7	722.4	721.7
135°	751.6	750.8	753.9	755.4	757.0
137.5°	782.3	782.3	786.1	787.6	786.9
140°	812.2	813.7	815.2	817.5	818.3
142.5°	839.0	842.1	842.9	844.4	844.4
145°	866.6	868.9	868.9	869.7	871.2
147.5°	888.1	892.7	891.9	892.7	893.5
150°	911.9	914.9	914.2	914.2	914.9
152.5°	931.8	934.1	932.6	934.1	933.3
155°	950.2	951.0	948.7	951.8	949.5
157.5°	966.3	966.3	963.3	967.1	963.3
160°	980.1	977.8	977.1	981.7	977.1
162.5°	992.4	989.3	988.6	993.2	987.8
165°	1002.4	998.5	998.5	1004.7	997.8
167.5°	1010.8	1007.0	1006.2	1013.1	1005.4
170°	1017.7	1013.1	1013.9	1020.0	1012.3
172.5°	1022.3	1017.7	1018.5	1024.6	1016.2
175°	1025.4	1020.8	1021.5	1028.4	1019.2
177.5°	1027.7	1022.3	1023.8	1030.0	1020.8
180°	1025.4	1025.4	1025.4	1025.4	1025.4

(END OF REPORT)