

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: P1026677

Luminaire Tested: S124RDIP-B795D810UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026677
REPORT IS A COMBINATION OF REPORTS P999817 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B795D810UB50-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

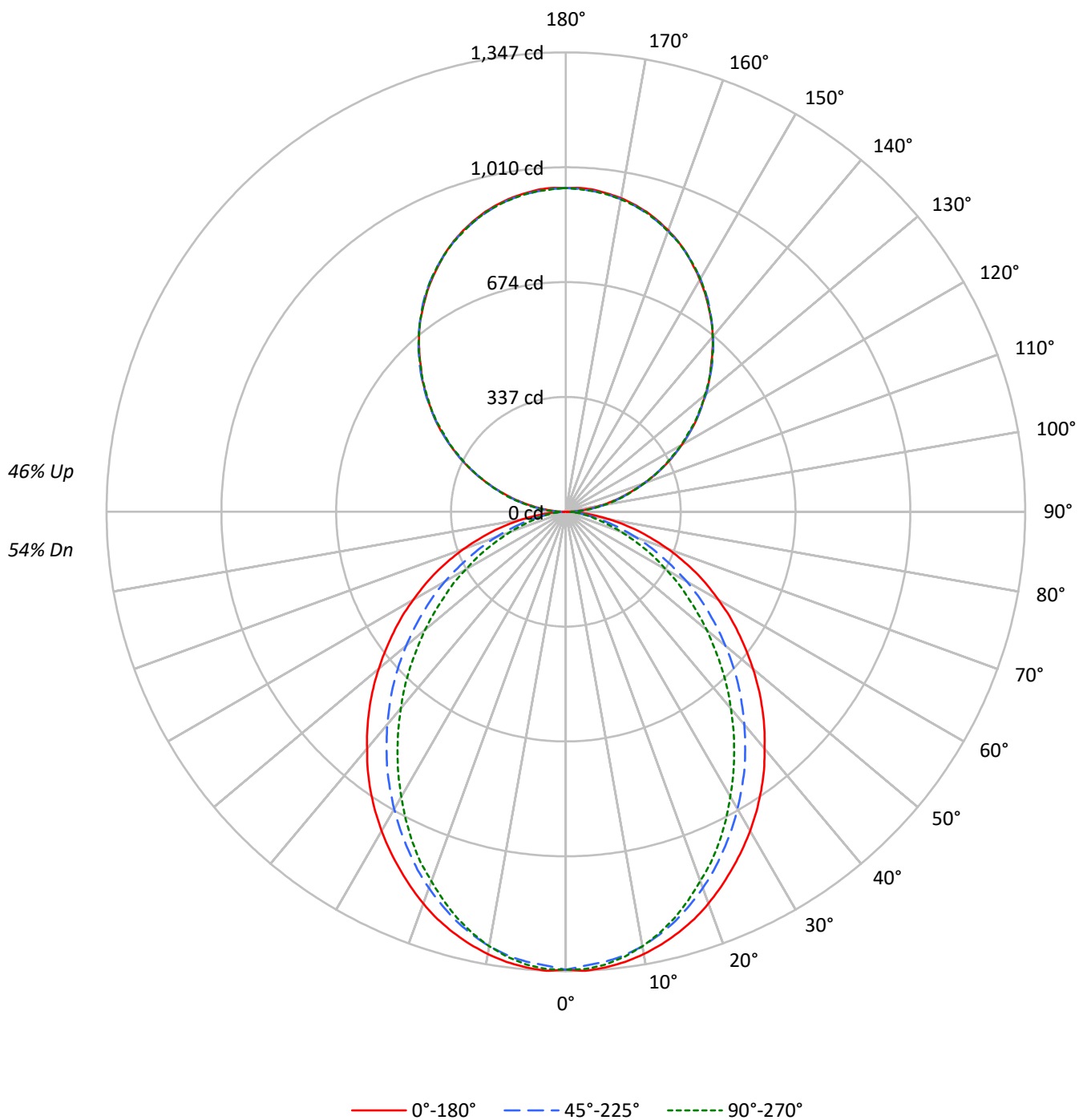
Lumens per Lamp: N/A
Luminaire Lumens: 5739.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1026677

CATALOG NUMBER: S124RDIP-B795D810UB50-4F0-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	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°	10951	10951	10951
5°	10952	10625	10627
10°	10859	10290	10168
15°	10710	9873	9627
20°	10514	9397	9009
25°	10271	8883	8406
30°	10031	8360	7729
35°	9769	7828	7068
40°	9456	7257	6388
45°	9163	6690	5716
50°	8829	6071	5031
55°	8469	5436	4326
60°	8069	4762	3629
65°	7682	3988	2959
70°	7135	3175	2261
75°	6429	2310	1581
80°	5371	1418	1137
85°	4039	817	625

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 9163 cd/sqm

TEST NUMBER: P1026677

CATALOG NUMBER: S124RDIP-B795D810UB50-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	2.2
10°-20°	352.1	6.1
20°-30°	508.3	8.9
30°-40°	576.1	10.0
40°-50°	556.3	9.7
50°-60°	462.5	8.1
60°-70°	319.2	5.6
70°-80°	161.3	2.8
80°-90°	43.0	0.7
90°-100°	61.9	1.1
100°-110°	185.3	3.2
110°-120°	314.8	5.5
120°-130°	415.2	7.2
130°-140°	466.4	8.1
140°-150°	458.4	8.0
150°-160°	385.5	6.7
160°-170°	256.5	4.5
170°-180°	89.8	1.6
0°-30°	986.7	17.2
0°-40°	1562.8	27.2
0°-60°	2581.6	45.0
0°-90°	3105.0	54.1
90°-120°	562.1	9.8
90°-150°	1902.1	33.1
90°-180°	2634.0	45.9
0°-180°	5739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1343	1343	1343	1343	1343	
5°	1341	1337	1324	1335	1333	127
15°	1277	1268	1242	1240	1233	360
25°	1155	1136	1094	1077	1066	532
35°	998	966	914	879	861	624
45°	814	776	715	664	646	628
55°	617	576	509	456	436	552
65°	420	375	310	265	253	414
75°	223	185	137	113	107	235
85°	56	35	32	30	30	61
90°	2	10	16	21	22	6
95°	44	51	56	58	58	48
105°	171	172	175	177	179	181
115°	320	320	319	318	317	316
125°	466	466	466	464	462	416
135°	601	606	606	604	602	465
145°	730	734	734	734	731	457
155°	837	837	836	839	836	385
165°	911	909	908	912	909	257
175°	948	944	943	949	943	90
180°	949	949	949	949	949	

TEST NUMBER: P1026677

CATALOG NUMBER: S124RDIP-B795D810UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1342.9	1342.9	1342.9	1342.9	1342.9
2.5°	1347.1	1342.9	1331.6	1342.9	1341.9
5°	1340.9	1336.8	1324.4	1334.7	1332.7
7.5°	1331.6	1327.5	1312.1	1319.3	1316.2
10°	1317.2	1312.1	1293.6	1297.7	1293.6
12.5°	1298.7	1292.6	1269.9	1272.0	1265.8
15°	1277.1	1267.9	1242.2	1240.1	1232.9
17.5°	1252.4	1239.1	1209.3	1204.1	1193.8
20°	1222.6	1209.3	1174.3	1166.1	1152.7
22.5°	1189.7	1174.3	1136.3	1122.9	1112.6
25°	1154.8	1136.3	1094.1	1076.6	1066.3
27.5°	1118.8	1096.1	1051.9	1031.4	1017.0
30°	1080.7	1055.0	1006.7	981.0	964.5
32.5°	1040.6	1010.8	960.4	929.6	914.1
35°	998.5	965.6	914.1	879.2	860.7
37.5°	954.2	920.3	863.8	825.7	807.2
40°	906.9	873.0	814.4	771.2	752.7
42.5°	861.7	825.7	764.0	719.8	700.3
45°	814.4	776.4	714.7	664.3	645.8
47.5°	766.1	727.0	663.2	610.8	590.2
50°	716.7	676.6	610.8	559.4	539.8
52.5°	666.3	627.3	559.4	506.9	486.4
55°	617.0	575.8	509.0	455.5	436.0
57.5°	568.6	525.5	459.6	405.1	390.7
60°	516.2	475.1	409.3	355.8	339.3
62.5°	468.9	425.7	357.8	309.5	297.2
65°	419.5	375.3	309.5	265.3	253.0
67.5°	368.1	326.0	264.3	225.2	210.8
70°	319.8	276.6	218.0	184.1	173.8
72.5°	268.4	230.3	175.8	148.1	138.8
75°	223.1	185.1	136.8	113.1	106.9
77.5°	175.8	142.9	101.8	85.3	83.3
80°	130.6	100.8	69.9	66.8	65.8
82.5°	91.5	64.8	50.4	48.3	47.3
85°	55.5	35.0	31.9	29.8	29.8
87.5°	23.7	15.4	14.4	13.4	14.4
90°	2.2	10.3	16.2	20.6	22.0
92.5°	19.1	28.6	32.3	34.5	35.2
95°	44.1	50.7	55.8	58.0	58.0
97.5°	70.5	76.4	82.2	85.2	85.2
100°	102.8	105.7	112.3	113.8	113.8
102.5°	136.6	137.3	143.2	145.4	146.1
105°	171.1	171.8	174.7	176.9	179.1
107.5°	207.0	207.8	208.5	211.4	210.7
110°	243.8	245.2	244.5	243.0	245.2

TEST NUMBER: P1026677

CATALOG NUMBER: S124RDIP-B795D810UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	281.9	281.9	280.5	280.5	280.5
115°	320.1	320.1	318.6	317.9	317.2
117.5°	356.1	356.1	355.3	353.1	350.9
120°	392.1	395.0	392.8	389.1	390.6
122.5°	429.5	430.2	429.5	427.3	423.6
125°	466.2	466.2	465.5	464.0	462.5
127.5°	499.2	501.5	500.0	498.5	497.8
130°	534.5	536.7	536.7	535.2	532.3
132.5°	570.5	571.9	571.2	569.7	569.0
135°	601.3	605.7	605.7	604.2	602.0
137.5°	635.8	638.0	639.5	637.3	638.0
140°	670.3	671.8	671.8	671.0	670.3
142.5°	701.9	703.4	702.6	702.6	702.6
145°	730.5	733.5	734.2	733.5	731.3
147.5°	759.9	763.6	762.8	762.1	761.4
150°	786.3	789.3	789.3	789.3	788.5
152.5°	811.3	812.7	813.5	815.7	813.5
155°	837.0	837.0	836.2	839.2	836.2
157.5°	859.0	857.5	857.5	859.7	857.5
160°	878.1	877.4	876.6	878.8	875.2
162.5°	895.7	893.5	892.8	897.2	893.5
165°	911.1	908.9	907.5	911.9	908.9
167.5°	923.6	920.7	920.7	925.1	920.7
170°	933.9	930.2	930.9	935.4	930.2
172.5°	941.2	938.3	938.3	943.4	938.3
175°	947.8	944.2	943.4	948.6	943.4
177.5°	950.8	947.1	947.1	952.2	946.4
180°	949.3	949.3	949.3	949.3	949.3

(END OF REPORT)