

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: P1026558

Luminaire Tested: S124RDIP-B795D1035UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026558
REPORT IS A COMBINATION OF REPORTS P999658 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B795D1035UB50-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

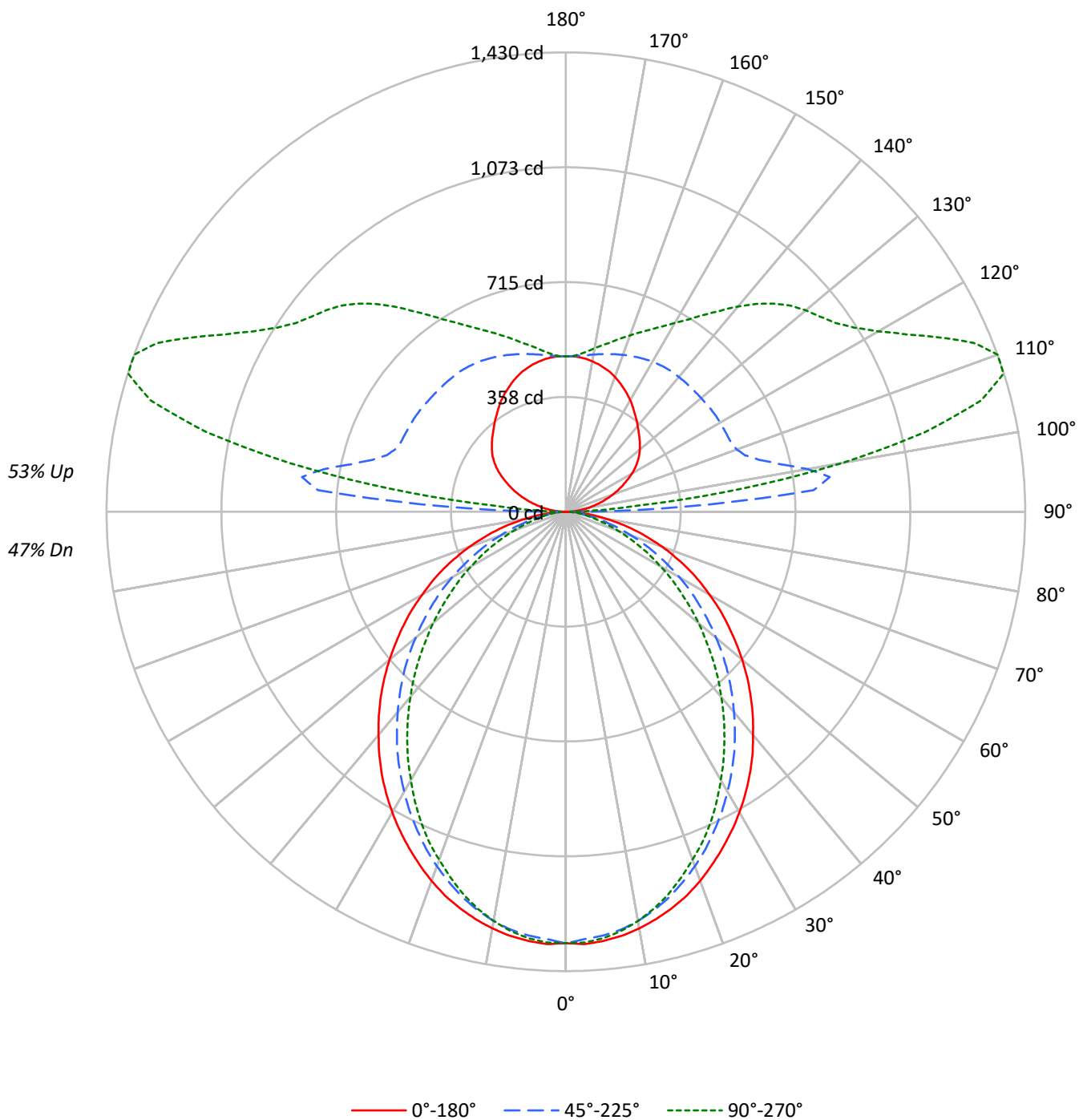
Lumens per Lamp: N/A
Luminaire Lumens: 6635.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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: P1026558

CATALOG NUMBER: S124RDIP-B795D1035UB50-4F0-XX-W2A-F4

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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53
1	97	93	89	86	89	86	83	80	72	70	67	59	58	56	47	46	45
2	89	82	76	71	81	75	70	66	63	59	56	52	50	47	42	40	39
3	81	72	65	59	74	66	60	55	56	51	48	46	43	40	37	35	33
4	74	64	56	50	68	59	52	47	50	45	41	41	38	35	34	31	29
5	68	57	49	43	63	53	46	40	45	39	35	37	33	30	30	27	25
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22
7	58	46	38	33	53	43	36	31	37	31	27	31	27	23	25	22	20
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18
9	50	38	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15

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: P1026558

CATALOG NUMBER: S124RDIP-B795D1035UB50-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	1.9
10°-20°	352.1	5.3
20°-30°	508.3	7.7
30°-40°	576.1	8.7
40°-50°	556.3	8.4
50°-60°	462.5	7.0
60°-70°	319.2	4.8
70°-80°	161.3	2.4
80°-90°	42.8	0.6
90°-100°	359.3	5.4
100°-110°	730.8	11.0
110°-120°	651.4	9.8
120°-130°	547.2	8.2
130°-140°	456.6	6.9
140°-150°	348.7	5.3
150°-160°	245.1	3.7
160°-170°	144.2	2.2
170°-180°	46.9	0.7
0°-30°	986.7	14.9
0°-40°	1562.8	23.6
0°-60°	2581.6	38.9
0°-90°	3104.9	46.8
90°-120°	1741.5	26.2
90°-150°	3094.0	46.6
90°-180°	3530.0	53.2
0°-180°	6635.0	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°	1	8	17	19	20	5
95°	31	99	774	384	232	34
105°	111	161	623	1342	1337	118
115°	196	246	556	1068	1284	194
125°	273	324	553	909	1024	243
135°	324	386	548	807	916	250
145°	374	428	546	680	748	234
155°	425	459	530	601	626	196
165°	463	477	508	538	546	131
175°	483	484	488	494	492	46
180°	484	484	484	484	484	

TEST NUMBER: P1026558

CATALOG NUMBER: S124RDIP-B795D1035UB50-4F0-XX-W2A-F4

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°	1.0	7.6	17.1	19.0	20.0
92.5°	13.3	73.2	372.5	123.0	86.5
95°	31.4	98.8	774.5	383.5	231.9
97.5°	52.3	109.3	828.7	783.1	556.9
100°	72.2	123.6	764.1	1083.4	871.5
102.5°	91.2	140.6	683.3	1271.6	1145.2
105°	111.2	161.1	623.4	1342.4	1337.1
107.5°	133.0	182.0	584.5	1321.0	1428.4
110°	154.9	202.9	566.4	1245.0	1430.3

TEST NUMBER: P1026558

CATALOG NUMBER: S124RDIP-B795D1035UB50-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	175.8	223.8	557.9	1151.8	1374.2
115°	195.8	245.6	556.0	1068.2	1283.9
117.5°	216.7	266.1	555.0	1002.6	1195.5
120°	237.6	286.0	555.0	958.4	1123.3
122.5°	256.6	305.5	554.1	929.4	1066.3
125°	272.7	324.1	553.1	909.0	1024.5
127.5°	288.0	341.2	551.2	889.5	997.9
130°	300.3	357.8	550.2	866.2	975.1
132.5°	312.7	372.0	549.3	838.7	949.4
135°	324.1	385.8	548.3	806.8	916.1
137.5°	335.5	397.7	548.3	772.6	877.2
140°	347.8	408.6	547.4	739.3	834.4
142.5°	361.1	418.6	547.4	708.5	788.8
145°	373.5	427.6	545.5	680.4	747.9
147.5°	387.7	436.2	542.6	657.2	709.9
150°	401.0	444.3	539.8	635.8	678.5
152.5°	413.4	451.9	535.0	617.8	650.0
155°	424.8	458.6	530.3	600.6	626.3
157.5°	436.2	464.7	525.5	584.4	604.4
160°	446.7	470.0	519.8	568.3	584.5
162.5°	456.2	474.2	514.1	552.6	565.5
165°	462.8	477.0	508.4	538.4	546.4
167.5°	470.4	479.4	502.7	526.0	531.2
170°	475.2	481.4	497.0	513.7	517.0
172.5°	479.9	482.8	491.3	502.8	502.7
175°	482.8	483.7	487.5	494.2	492.3
177.5°	484.7	483.7	484.7	488.0	484.7
180°	483.7	483.7	483.7	483.7	483.7

(END OF REPORT)