

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: P1026095

Luminaire Tested: S124RDIP-B1195D1035UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026095
REPORT IS A COMBINATION OF REPORTS P999045 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1195D1035UB35-4F0-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

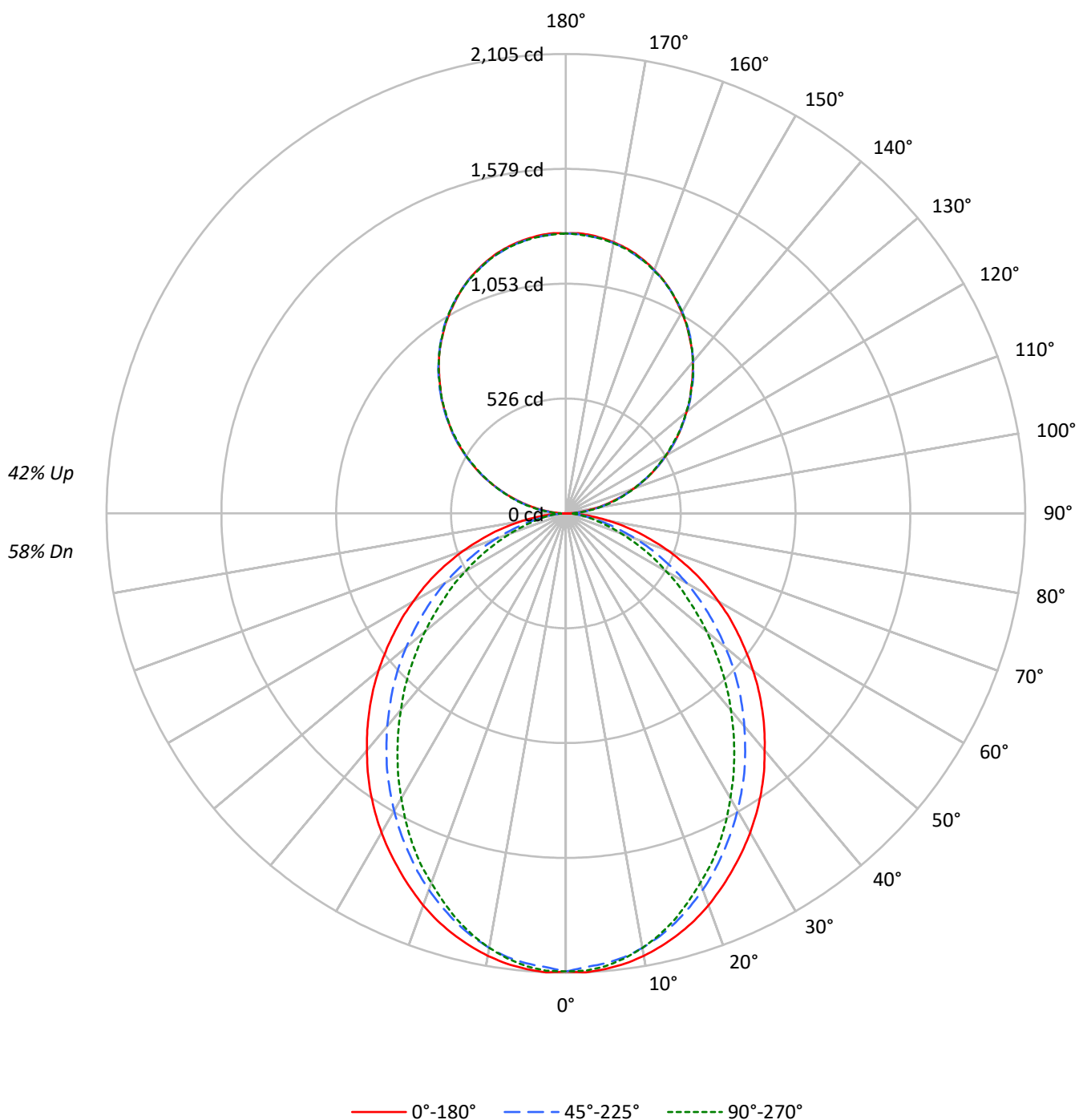
Lumens per Lamp: N/A
Luminaire Lumens: 8413.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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: P1026095

CATALOG NUMBER: S124RDIP-B1195D1035UB35-4F0-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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63
1	100	96	92	88	93	89	86	83	77	75	73	66	65	63	56	55	54
2	91	84	78	73	85	78	73	69	68	64	61	59	56	53	50	48	46
3	83	74	67	61	77	69	63	58	60	55	51	52	48	45	45	42	39
4	76	66	58	52	71	62	55	49	54	48	44	47	42	39	40	37	34
5	70	59	51	45	65	55	48	42	48	43	38	42	38	34	36	33	30
6	65	53	45	39	60	50	42	37	44	38	33	38	34	30	33	29	27
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	26	24
8	56	43	36	30	52	41	34	29	36	31	26	32	27	24	28	24	21
9	52	40	32	27	49	38	31	26	33	28	24	29	25	22	26	22	19
10	49	37	29	25	45	35	28	24	31	25	22	27	23	20	24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17116	17116	17116
5°	17118	16608	16610
10°	16973	16084	15893
15°	16740	15431	15046
20°	16434	14687	14082
25°	16052	13885	13139
30°	15679	13066	12082
35°	15268	12236	11047
40°	14780	11342	9985
45°	14321	10456	8933
50°	13800	9489	7864
55°	13237	8496	6762
60°	12612	7443	5673
65°	12008	6234	4624
70°	11150	4961	3534
75°	10052	3611	2471
80°	8394	2217	1777
85°	6316	1276	977

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14321 cd/sqm

TEST NUMBER: P1026095

CATALOG NUMBER: S124RDIP-B1195D1035UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.4	2.3
10°-20°	550.3	6.5
20°-30°	794.5	9.4
30°-40°	900.5	10.7
40°-50°	869.4	10.3
50°-60°	722.8	8.6
60°-70°	498.9	5.9
70°-80°	252.1	3.0
80°-90°	66.8	0.8
90°-100°	83.6	1.0
100°-110°	250.5	3.0
110°-120°	425.6	5.1
120°-130°	561.3	6.7
130°-140°	630.4	7.5
140°-150°	619.6	7.4
150°-160°	521.1	6.2
160°-170°	346.7	4.1
170°-180°	121.4	1.4
0°-30°	1542.2	18.3
0°-40°	2442.7	29.0
0°-60°	4035.0	48.0
0°-90°	4852.7	57.7
90°-120°	759.7	9.0
90°-150°	2571.0	30.6
90°-180°	3560.0	42.3
0°-180°	8413.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2099	2099	2099	2099	2099	
5°	2096	2089	2070	2086	2083	199
15°	1996	1982	1942	1938	1927	563
25°	1805	1776	1710	1683	1667	832
35°	1561	1509	1429	1374	1345	975
45°	1273	1213	1117	1038	1009	982
55°	964	900	796	712	682	863
65°	656	587	484	415	395	648
75°	349	289	214	177	167	368
85°	87	55	50	47	47	95
90°	3	14	22	28	30	9
95°	60	68	75	78	78	64
105°	231	232	236	239	242	245
115°	433	433	431	430	429	427
125°	630	630	629	627	625	562
135°	813	819	819	817	814	629
145°	987	991	992	991	988	618
155°	1131	1131	1130	1134	1130	521
165°	1232	1229	1227	1232	1229	347
175°	1281	1276	1275	1282	1275	122
180°	1283	1283	1283	1283	1283	

TEST NUMBER: P1026095

CATALOG NUMBER: S124RDIP-B1195D1035UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2099.0	2099.0	2099.0	2099.0	2099.0
2.5°	2105.4	2099.0	2081.3	2099.0	2097.4
5°	2095.8	2089.4	2070.1	2086.2	2082.9
7.5°	2081.3	2074.9	2050.8	2062.1	2057.2
10°	2058.8	2050.8	2021.9	2028.3	2021.9
12.5°	2029.9	2020.3	1984.9	1988.1	1978.5
15°	1996.2	1981.7	1941.5	1938.3	1927.0
17.5°	1957.6	1936.7	1890.1	1882.0	1866.0
20°	1911.0	1890.1	1835.4	1822.6	1801.7
22.5°	1859.5	1835.4	1776.0	1755.1	1739.0
25°	1804.9	1776.0	1710.1	1682.7	1666.7
27.5°	1748.6	1713.3	1644.2	1612.0	1589.5
30°	1689.2	1649.0	1573.5	1533.3	1507.6
32.5°	1626.5	1579.9	1501.1	1452.9	1428.8
35°	1560.6	1509.2	1428.8	1374.2	1345.2
37.5°	1491.5	1438.5	1350.1	1290.6	1261.7
40°	1417.6	1364.5	1272.9	1205.4	1176.5
42.5°	1346.8	1290.6	1194.2	1125.0	1094.5
45°	1272.9	1213.4	1117.0	1038.3	1009.3
47.5°	1197.4	1136.3	1036.7	954.7	922.5
50°	1120.2	1057.5	954.7	874.3	843.8
52.5°	1041.5	980.4	874.3	792.4	760.2
55°	964.3	900.0	795.6	712.0	681.5
57.5°	888.8	821.3	718.4	633.2	610.7
60°	806.8	742.5	639.7	556.1	530.4
62.5°	732.9	665.4	559.3	483.8	464.5
65°	655.7	586.6	483.8	414.7	395.4
67.5°	575.4	509.5	413.1	352.0	329.5
70°	499.8	432.3	340.7	287.7	271.6
72.5°	419.5	360.0	274.8	231.4	217.0
75°	348.8	289.3	213.8	176.8	167.1
77.5°	274.8	223.4	159.1	133.4	130.2
80°	204.1	157.5	109.3	104.5	102.9
82.5°	143.0	101.3	78.8	75.5	73.9
85°	86.8	54.6	49.8	46.6	46.6
87.5°	37.0	24.1	22.5	20.9	22.5
90°	3.0	13.9	21.8	27.8	29.8
92.5°	25.8	38.7	43.7	46.6	47.6
95°	59.5	68.5	75.4	78.4	78.4
97.5°	95.3	103.2	111.1	115.1	115.1
100°	138.9	142.9	151.8	153.8	153.8
102.5°	184.6	185.6	193.5	196.5	197.5
105°	231.2	232.2	236.2	239.2	242.1
107.5°	279.9	280.8	281.8	285.8	284.8
110°	329.5	331.5	330.5	328.5	331.5

TEST NUMBER: P1026095

CATALOG NUMBER: S124RDIP-B1195D1035UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	381.1	381.1	379.1	379.1	379.1
115°	432.7	432.7	430.7	429.7	428.7
117.5°	481.3	481.3	480.3	477.3	474.4
120°	529.9	533.9	530.9	526.0	527.9
122.5°	580.5	581.5	580.5	577.6	572.6
125°	630.2	630.2	629.2	627.2	625.2
127.5°	674.8	677.8	675.8	673.8	672.8
130°	722.5	725.4	725.4	723.4	719.5
132.5°	771.1	773.1	772.1	770.1	769.1
135°	812.8	818.7	818.7	816.7	813.8
137.5°	859.4	862.4	864.4	861.4	862.4
140°	906.0	908.0	908.0	907.0	906.0
142.5°	948.7	950.7	949.7	949.7	949.7
145°	987.4	991.4	992.4	991.4	988.4
147.5°	1027.1	1032.1	1031.1	1030.1	1029.1
150°	1062.8	1066.8	1066.8	1066.8	1065.8
152.5°	1096.6	1098.6	1099.6	1102.5	1099.6
155°	1131.3	1131.3	1130.3	1134.3	1130.3
157.5°	1161.1	1159.1	1159.1	1162.1	1159.1
160°	1186.9	1185.9	1184.9	1187.9	1182.9
162.5°	1210.7	1207.7	1206.7	1212.7	1207.7
165°	1231.5	1228.6	1226.6	1232.5	1228.6
167.5°	1248.4	1244.4	1244.4	1250.4	1244.4
170°	1262.3	1257.3	1258.3	1264.3	1257.3
172.5°	1272.2	1268.3	1268.3	1275.2	1268.3
175°	1281.2	1276.2	1275.2	1282.2	1275.2
177.5°	1285.1	1280.2	1280.2	1287.1	1279.2
180°	1283.1	1283.1	1283.1	1283.1	1283.1

(END OF REPORT)