

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: P1026178

Luminaire Tested: S124RDIP-B1195D590UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026178
REPORT IS A COMBINATION OF REPORTS P999158 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1195D590UB30-4F0-XX-W2A-F
Description: Define 4 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

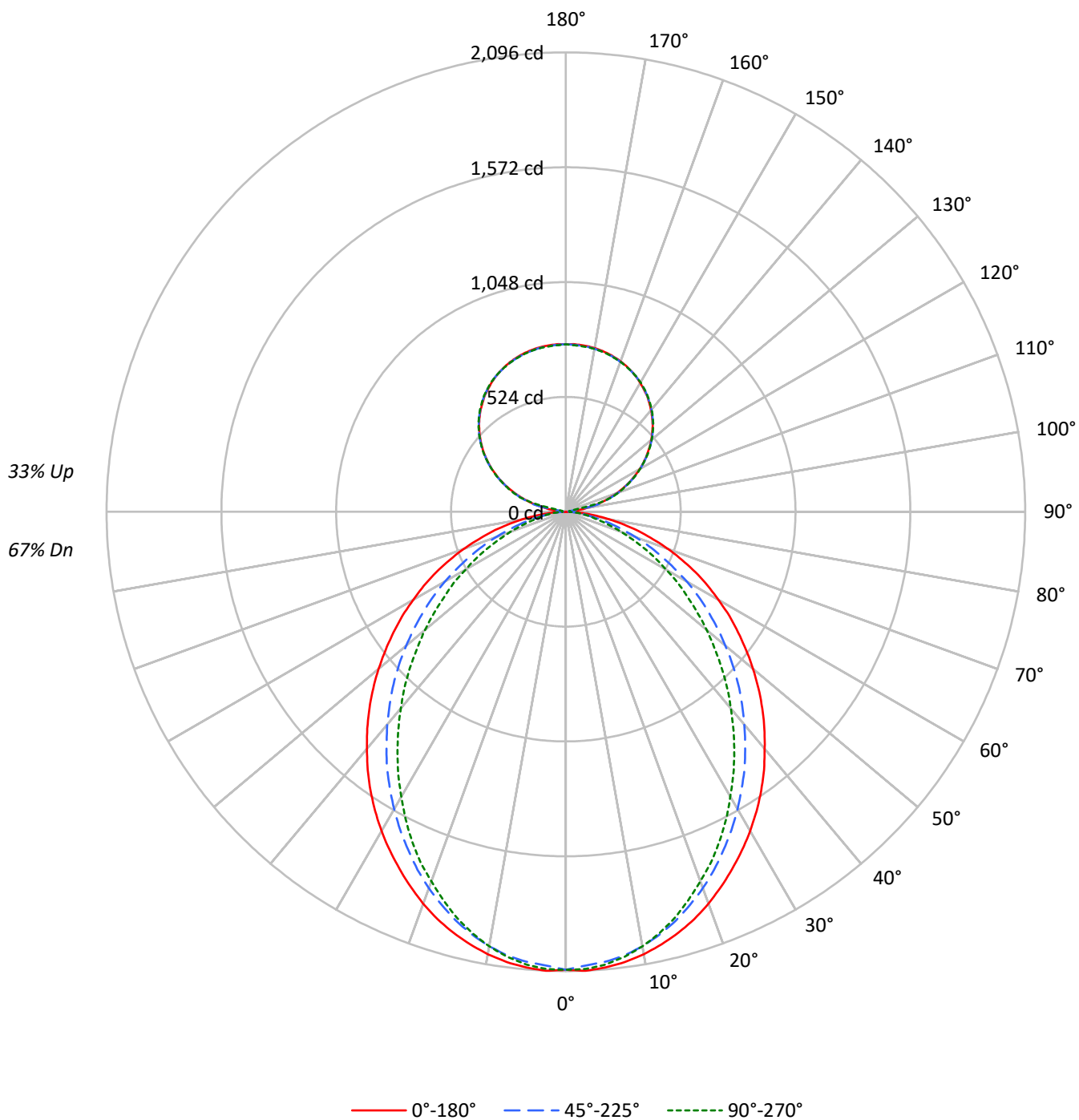
Lumens per Lamp: N/A
Luminaire Lumens: 7195.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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: P1026178

CATALOG NUMBER: S124RDIP-B1195D590UB30-4F0-XX-W2A-F

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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72
1	102	98	94	90	96	92	89	86	82	80	77	73	71	69	64	63	61
2	93	86	80	74	88	81	76	71	72	68	65	64	61	58	57	54	52
3	85	76	68	62	80	72	65	60	64	59	55	57	53	50	51	48	45
4	78	67	59	53	73	64	57	51	57	52	47	51	47	43	46	42	39
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34
6	66	54	46	40	63	52	44	39	47	40	36	42	37	33	37	33	30
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27
8	57	45	37	32	54	43	36	31	39	33	28	35	30	26	32	27	24
9	54	41	33	28	50	39	32	27	36	30	26	32	27	24	29	25	22
10	50	38	31	26	47	36	29	25	33	27	23	30	25	22	27	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17042	17042	17042
5°	17044	16536	16538
10°	16899	16014	15824
15°	16667	15365	14981
20°	16362	14624	14021
25°	15983	13825	13083
30°	15611	13009	12029
35°	15202	12183	11000
40°	14716	11293	9942
45°	14259	10411	8895
50°	13741	9447	7830
55°	13180	8459	6733
60°	12557	7410	5648
65°	11957	6207	4604
70°	11104	4941	3518
75°	10008	3594	2460
80°	8357	2207	1769
85°	6287	1271	973

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14259 cd/sqm

TEST NUMBER: P1026178

CATALOG NUMBER: S124RDIP-B1195D590UB30-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.5	2.7
10°-20°	547.9	7.6
20°-30°	791.1	11.0
30°-40°	896.6	12.5
40°-50°	865.7	12.0
50°-60°	719.7	10.0
60°-70°	496.8	6.9
70°-80°	251.0	3.5
80°-90°	65.3	0.9
90°-100°	25.4	0.4
100°-110°	167.0	2.3
110°-120°	319.0	4.4
120°-130°	404.9	5.6
130°-140°	433.2	6.0
140°-150°	405.0	5.6
150°-160°	326.6	4.5
160°-170°	210.7	2.9
170°-180°	72.6	1.0
0°-30°	1535.6	21.3
0°-40°	2432.1	33.8
0°-60°	4017.5	55.8
0°-90°	4830.6	67.1
90°-120°	511.4	7.1
90°-150°	1754.5	24.4
90°-180°	2364.0	32.9
0°-180°	7195.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2090	2090	2090	2090	2090	
5°	2087	2080	2061	2077	2074	198
15°	1988	1973	1933	1930	1919	560
25°	1797	1768	1703	1676	1660	828
35°	1554	1503	1423	1368	1339	971
45°	1267	1208	1112	1034	1005	977
55°	960	896	792	709	678	859
65°	653	584	482	413	394	645
75°	347	288	213	176	166	366
85°	86	54	50	46	46	95
90°	2	8	13	16	17	7
95°	31	12	13	16	17	39
105°	172	176	178	184	163	180
115°	321	323	322	324	324	316
125°	452	454	453	454	455	403
135°	560	560	562	563	564	432
145°	646	648	648	648	649	404
155°	708	709	707	709	708	327
165°	747	744	744	749	744	211
175°	764	761	761	766	760	73
180°	764	764	764	764	764	

TEST NUMBER: P1026178

CATALOG NUMBER: S124RDIP-B1195D590UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2089.9	2089.9	2089.9	2089.9	2089.9
2.5°	2096.3	2089.9	2072.3	2089.9	2088.3
5°	2086.7	2080.3	2061.1	2077.1	2073.9
7.5°	2072.3	2065.9	2041.9	2053.1	2048.3
10°	2049.9	2041.9	2013.1	2019.5	2013.1
12.5°	2021.1	2011.5	1976.3	1979.5	1969.9
15°	1987.5	1973.1	1933.1	1929.9	1918.7
17.5°	1949.1	1928.3	1881.9	1873.9	1857.9
20°	1902.7	1881.9	1827.5	1814.7	1793.9
22.5°	1851.5	1827.5	1768.3	1747.5	1731.5
25°	1797.1	1768.3	1702.7	1675.5	1659.5
27.5°	1741.1	1705.9	1637.1	1605.1	1582.6
30°	1681.9	1641.9	1566.6	1526.6	1501.0
32.5°	1619.5	1573.0	1494.6	1446.6	1422.6
35°	1553.8	1502.6	1422.6	1368.2	1339.4
37.5°	1485.0	1432.2	1344.2	1285.0	1256.2
40°	1411.4	1358.6	1267.4	1200.2	1171.4
42.5°	1341.0	1285.0	1189.0	1120.2	1089.8
45°	1267.4	1208.2	1112.2	1033.8	1005.0
47.5°	1192.2	1131.4	1032.2	950.5	918.5
50°	1115.4	1053.0	950.5	870.5	840.1
52.5°	1037.0	976.2	870.5	788.9	756.9
55°	960.2	896.1	792.1	708.9	678.5
57.5°	884.9	817.7	715.3	630.5	608.1
60°	803.3	739.3	636.9	553.7	528.1
62.5°	729.7	662.5	556.9	481.7	462.5
65°	652.9	584.1	481.7	412.9	393.7
67.5°	572.9	507.3	411.3	350.5	328.1
70°	497.7	430.5	339.3	286.4	270.4
72.5°	417.7	358.5	273.6	230.4	216.0
75°	347.3	288.0	212.8	176.0	166.4
77.5°	273.6	222.4	158.4	132.8	129.6
80°	203.2	156.8	108.8	104.0	102.4
82.5°	142.4	100.8	78.4	75.2	73.6
85°	86.4	54.4	49.6	46.4	46.4
87.5°	36.8	24.0	22.4	20.8	22.4
90°	1.7	8.0	12.6	16.0	17.1
92.5°	8.6	7.4	12.0	15.4	15.4
95°	31.4	12.0	12.6	16.0	16.6
97.5°	60.0	72.6	12.6	15.4	16.0
100°	93.7	104.0	25.1	15.4	16.0
102.5°	131.4	138.3	145.2	16.6	16.6
105°	172.0	175.5	178.3	183.5	162.9
107.5°	209.2	210.9	214.9	217.7	220.0
110°	246.9	248.6	252.0	253.2	254.9



TEST NUMBER: P1026178

CATALOG NUMBER: S124RDIP-B1195D590UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.5	286.9	288.0	287.5	289.8
115°	321.2	322.9	322.3	323.5	323.5
117.5°	354.9	357.2	358.9	358.3	358.3
120°	389.2	391.5	390.9	392.1	390.9
122.5°	421.2	422.3	423.5	424.1	422.9
125°	451.5	453.8	452.6	454.4	454.9
127.5°	480.6	481.2	484.1	483.5	482.9
130°	508.6	509.2	510.9	511.5	511.5
132.5°	534.4	535.5	537.8	538.4	537.8
135°	560.1	559.5	561.8	562.9	564.1
137.5°	582.9	582.9	585.8	586.9	586.4
140°	605.2	606.4	607.5	609.2	609.8
142.5°	625.2	627.5	628.1	629.2	629.2
145°	645.8	647.5	647.5	648.1	649.2
147.5°	661.8	665.2	664.7	665.2	665.8
150°	679.5	681.8	681.2	681.2	681.8
152.5°	694.4	696.1	695.0	696.1	695.5
155°	708.1	708.7	707.0	709.2	707.5
157.5°	720.1	720.1	717.8	720.7	717.8
160°	730.4	728.7	728.1	731.5	728.1
162.5°	739.5	737.2	736.7	740.1	736.1
165°	747.0	744.1	744.1	748.7	743.5
167.5°	753.3	750.4	749.8	755.0	749.2
170°	758.4	755.0	755.5	760.1	754.4
172.5°	761.8	758.4	759.0	763.5	757.3
175°	764.1	760.7	761.3	766.4	759.5
177.5°	765.8	761.8	763.0	767.5	760.7
180°	764.1	764.1	764.1	764.1	764.1

(END OF REPORT)