

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: P1026108

Luminaire Tested: S124RDIP-B1195D1035UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026108
REPORT IS A COMBINATION OF REPORTS P999058 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1195D1035UB50-4F0-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

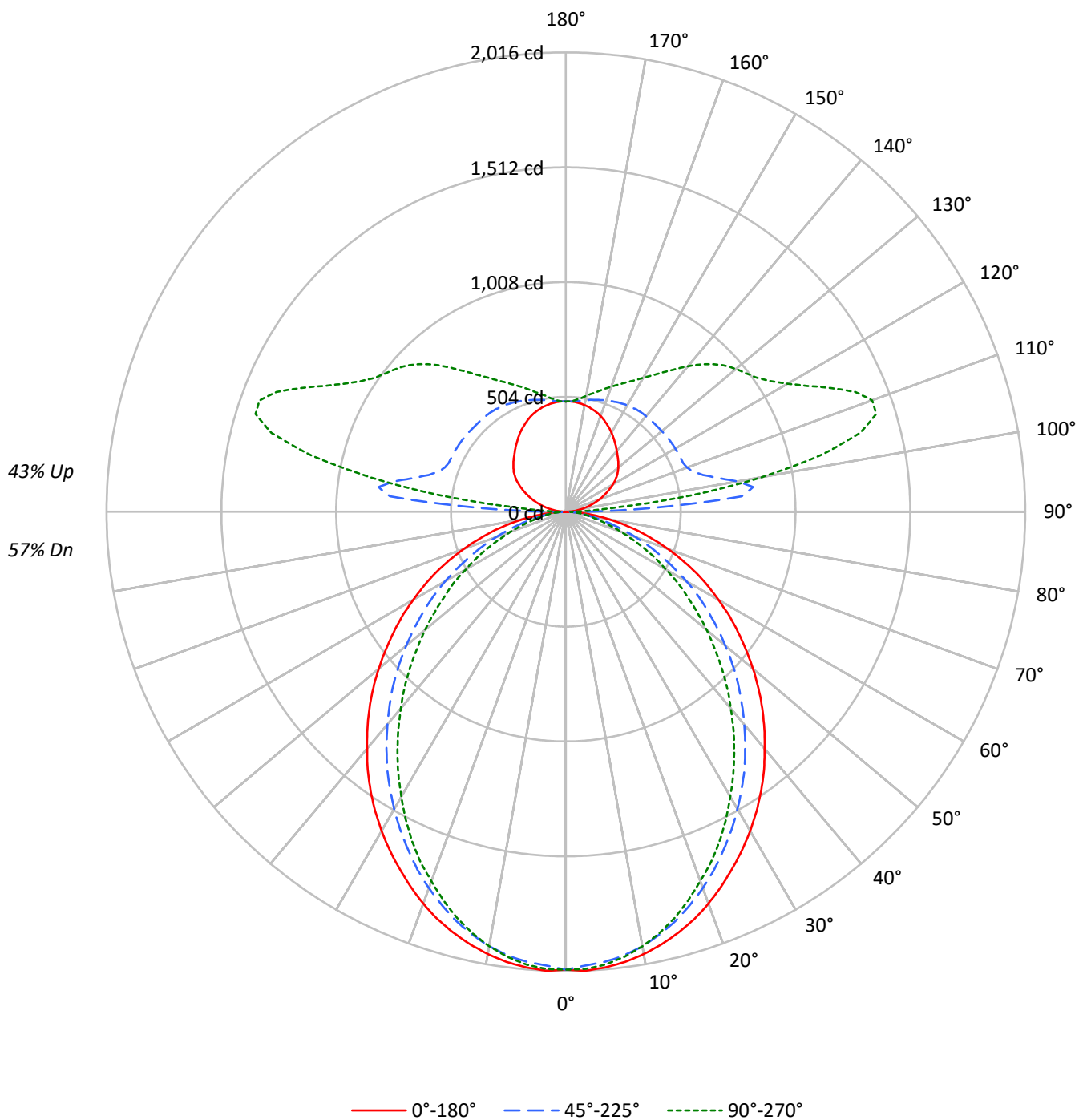
Lumens per Lamp: N/A
Luminaire Lumens: 8176.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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

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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	101	101	101	101	87	87	87	74	74	74	62	62	62
1	100	95	92	88	93	89	86	83	77	75	72	66	64	63	56	54	53
2	91	84	78	73	84	78	73	68	68	64	60	58	55	53	49	47	45
3	83	74	67	61	77	69	63	57	60	55	51	52	48	45	44	41	39
4	76	66	58	52	71	61	54	49	54	48	44	46	42	39	39	36	34
5	70	59	50	44	65	55	48	42	48	42	38	42	37	34	36	32	30
6	65	53	45	39	60	49	42	37	43	38	33	38	33	30	32	29	26
7	60	48	40	34	56	45	38	33	39	34	29	34	30	26	30	26	23
8	56	43	36	30	52	41	34	29	36	30	26	32	27	24	27	24	21
9	52	40	32	27	48	37	31	26	33	28	24	29	25	21	25	22	19
10	49	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16390	16390	16390
5°	16391	15903	15905
10°	16252	15401	15218
15°	16029	14776	14408
20°	15735	14064	13484
25°	15370	13295	12581
30°	15013	12511	11568
35°	14620	11716	10578
40°	14151	10860	9561
45°	13713	10012	8554
50°	13213	9085	7530
55°	12675	8135	6475
60°	12077	7126	5432
65°	11499	5969	4428
70°	10677	4752	3384
75°	9625	3457	2367
80°	8037	2121	1701
85°	6047	1222	935

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13713 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	2.3
10°-20°	527.0	6.4
20°-30°	760.8	9.3
30°-40°	862.2	10.5
40°-50°	832.5	10.2
50°-60°	692.1	8.5
60°-70°	477.7	5.8
70°-80°	241.4	3.0
80°-90°	63.1	0.8
90°-100°	359.3	4.4
100°-110°	730.8	8.9
110°-120°	651.4	8.0
120°-130°	547.2	6.7
130°-140°	456.6	5.6
140°-150°	348.7	4.3
150°-160°	245.1	3.0
160°-170°	144.2	1.8
170°-180°	46.9	0.6
0°-30°	1476.7	18.1
0°-40°	2339.0	28.6
0°-60°	3863.6	47.3
0°-90°	4645.9	56.8
90°-120°	1741.5	21.3
90°-150°	3094.0	37.8
90°-180°	3530.0	43.2
0°-180°	8176.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2010	2010	2010	2010	2010	
5°	2007	2001	1982	1998	1994	190
15°	1911	1898	1859	1856	1845	539
25°	1728	1700	1637	1611	1596	796
35°	1494	1445	1368	1316	1288	934
45°	1219	1162	1070	994	966	940
55°	923	862	762	682	652	826
65°	628	562	463	397	379	620
75°	334	277	205	169	160	352
85°	83	52	48	45	45	91
90°	1	8	17	19	20	7
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2009.9	2009.9	2009.9	2009.9	2009.9
2.5°	2016.0	2009.9	1992.9	2009.9	2008.3
5°	2006.8	2000.6	1982.2	1997.6	1994.5
7.5°	1992.9	1986.8	1963.7	1974.5	1969.8
10°	1971.4	1963.7	1936.0	1942.1	1936.0
12.5°	1943.7	1934.5	1900.6	1903.7	1894.4
15°	1911.4	1897.5	1859.0	1856.0	1845.2
17.5°	1874.4	1854.4	1809.8	1802.1	1786.7
20°	1829.8	1809.8	1757.5	1745.2	1725.2
22.5°	1780.6	1757.5	1700.5	1680.5	1665.1
25°	1728.2	1700.5	1637.4	1611.3	1595.9
27.5°	1674.4	1640.5	1574.3	1543.6	1522.0
30°	1617.4	1579.0	1506.6	1468.2	1443.5
32.5°	1557.4	1512.8	1437.4	1391.2	1368.1
35°	1494.3	1445.1	1368.1	1315.8	1288.1
37.5°	1428.1	1377.4	1292.7	1235.8	1208.1
40°	1357.3	1306.6	1218.8	1154.2	1126.5
42.5°	1289.6	1235.8	1143.4	1077.3	1048.0
45°	1218.8	1161.9	1069.6	994.2	966.5
47.5°	1146.5	1088.0	992.6	914.1	883.4
50°	1072.6	1012.6	914.1	837.2	807.9
52.5°	997.2	938.8	837.2	758.7	727.9
55°	923.4	861.8	761.8	681.8	652.5
57.5°	851.0	786.4	687.9	606.3	584.8
60°	772.6	711.0	612.5	532.5	507.9
62.5°	701.8	637.1	535.6	463.2	444.8
65°	627.9	561.7	463.2	397.0	378.6
67.5°	550.9	487.8	395.5	337.0	315.5
70°	478.6	414.0	326.3	275.5	260.1
72.5°	401.7	344.7	263.2	221.6	207.8
75°	334.0	277.0	204.7	169.3	160.1
77.5°	263.2	213.9	152.4	127.7	124.7
80°	195.4	150.8	104.6	100.0	98.5
82.5°	137.0	97.0	75.4	72.3	70.8
85°	83.1	52.3	47.7	44.6	44.6
87.5°	35.4	23.1	21.5	20.0	21.5
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

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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)