

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: P1026167

Luminaire Tested: S124RDIP-B1195D365UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026167
REPORT IS A COMBINATION OF REPORTS P999137 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1195D365UB50-4F0-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

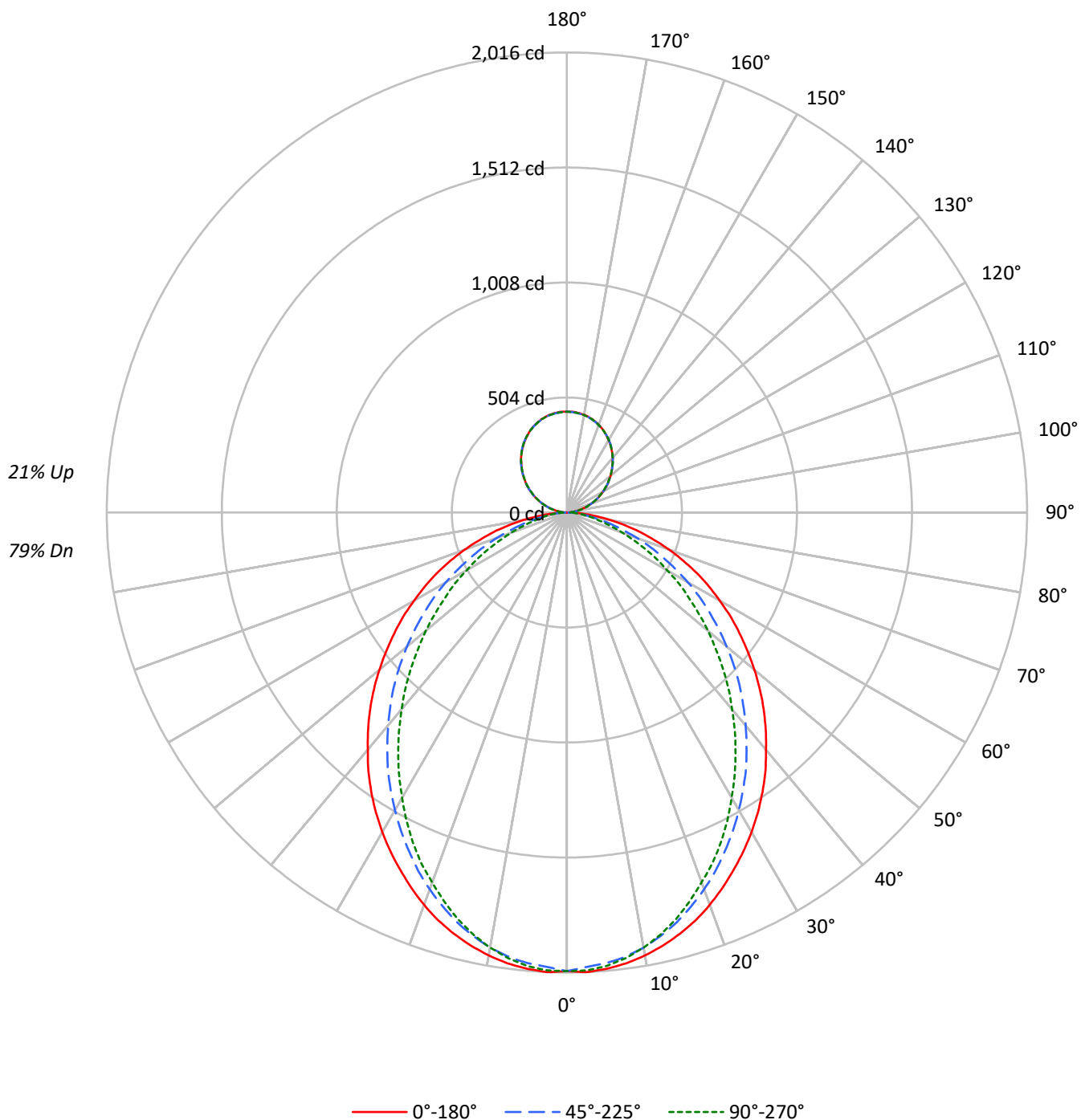
Lumens per Lamp: N/A
Luminaire Lumens: 5871.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83
1	105	100	97	93	100	96	93	90	88	85	83	81	79	77	74	72	71
2	96	88	82	77	91	85	79	74	78	73	69	71	68	65	66	63	60
3	88	78	70	65	84	75	68	63	69	63	59	64	59	55	59	55	52
4	81	69	61	55	77	67	59	54	62	56	51	57	52	48	53	48	45
5	74	62	54	48	71	60	52	46	55	49	44	51	46	42	48	43	40
6	69	56	48	42	65	54	46	41	50	44	39	47	41	37	43	39	35
7	64	51	43	37	61	49	42	36	46	39	35	43	37	33	40	35	31
8	59	47	39	33	57	45	38	32	42	36	31	39	34	30	37	32	28
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	31	27	23

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	3.2
10°-20°	527.0	9.0
20°-30°	760.8	13.0
30°-40°	862.2	14.7
40°-50°	832.5	14.2
50°-60°	692.1	11.8
60°-70°	477.7	8.1
70°-80°	241.4	4.1
80°-90°	62.2	1.1
90°-100°	28.8	0.5
100°-110°	86.3	1.5
110°-120°	146.5	2.5
120°-130°	193.3	3.3
130°-140°	217.1	3.7
140°-150°	213.4	3.6
150°-160°	179.5	3.1
160°-170°	119.4	2.0
170°-180°	41.8	0.7
0°-30°	1476.7	25.2
0°-40°	2339.0	39.8
0°-60°	3863.6	65.8
0°-90°	4644.9	79.1
90°-120°	261.6	4.5
90°-150°	885.4	15.1
90°-180°	1226.0	20.9
0°-180°	5871.0	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	5	8	10	10	6
95°	20	24	26	27	27	22
105°	80	80	81	82	83	84
115°	149	149	148	148	148	147
125°	217	217	217	216	215	193
135°	280	282	282	281	280	217
145°	340	341	342	341	340	213
155°	390	390	389	391	389	179
165°	424	423	422	424	423	120
175°	441	440	439	442	439	42
180°	442	442	442	442	442	

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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	4.8	7.5	9.6	10.3
92.5°	8.9	13.3	15.0	16.1	16.4
95°	20.5	23.6	26.0	27.0	27.0
97.5°	32.8	35.5	38.3	39.6	39.6
100°	47.8	49.2	52.3	53.0	53.0
102.5°	63.6	63.9	66.6	67.7	68.0
105°	79.6	80.0	81.3	82.4	83.4
107.5°	96.4	96.7	97.1	98.4	98.1
110°	113.5	114.1	113.8	113.1	114.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	131.2	131.2	130.5	130.5	130.5
115°	149.0	149.0	148.3	148.0	147.6
117.5°	165.7	165.7	165.4	164.4	163.4
120°	182.5	183.9	182.8	181.1	181.8
122.5°	199.9	200.3	199.9	198.9	197.2
125°	217.0	217.0	216.7	216.0	215.3
127.5°	232.4	233.4	232.7	232.0	231.7
130°	248.8	249.8	249.8	249.1	247.8
132.5°	265.5	266.2	265.9	265.2	264.9
135°	279.9	281.9	281.9	281.3	280.2
137.5°	296.0	297.0	297.7	296.6	297.0
140°	312.0	312.7	312.7	312.4	312.0
142.5°	326.7	327.4	327.1	327.1	327.1
145°	340.0	341.4	341.7	341.4	340.4
147.5°	353.7	355.4	355.1	354.7	354.4
150°	366.0	367.4	367.4	367.4	367.0
152.5°	377.6	378.3	378.7	379.7	378.7
155°	389.6	389.6	389.3	390.6	389.3
157.5°	399.8	399.2	399.2	400.2	399.2
160°	408.7	408.4	408.0	409.1	407.4
162.5°	416.9	415.9	415.6	417.6	415.9
165°	424.1	423.1	422.4	424.5	423.1
167.5°	429.9	428.6	428.6	430.6	428.6
170°	434.7	433.0	433.3	435.4	433.0
172.5°	438.1	436.8	436.8	439.1	436.8
175°	441.2	439.5	439.1	441.5	439.1
177.5°	442.6	440.9	440.9	443.2	440.5
180°	441.9	441.9	441.9	441.9	441.9

(END OF REPORT)