

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: P1026138

Luminaire Tested: S124RDIP-B1195D1205UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026138
REPORT IS A COMBINATION OF REPORTS P999098 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1195D1205UB50-4F0-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

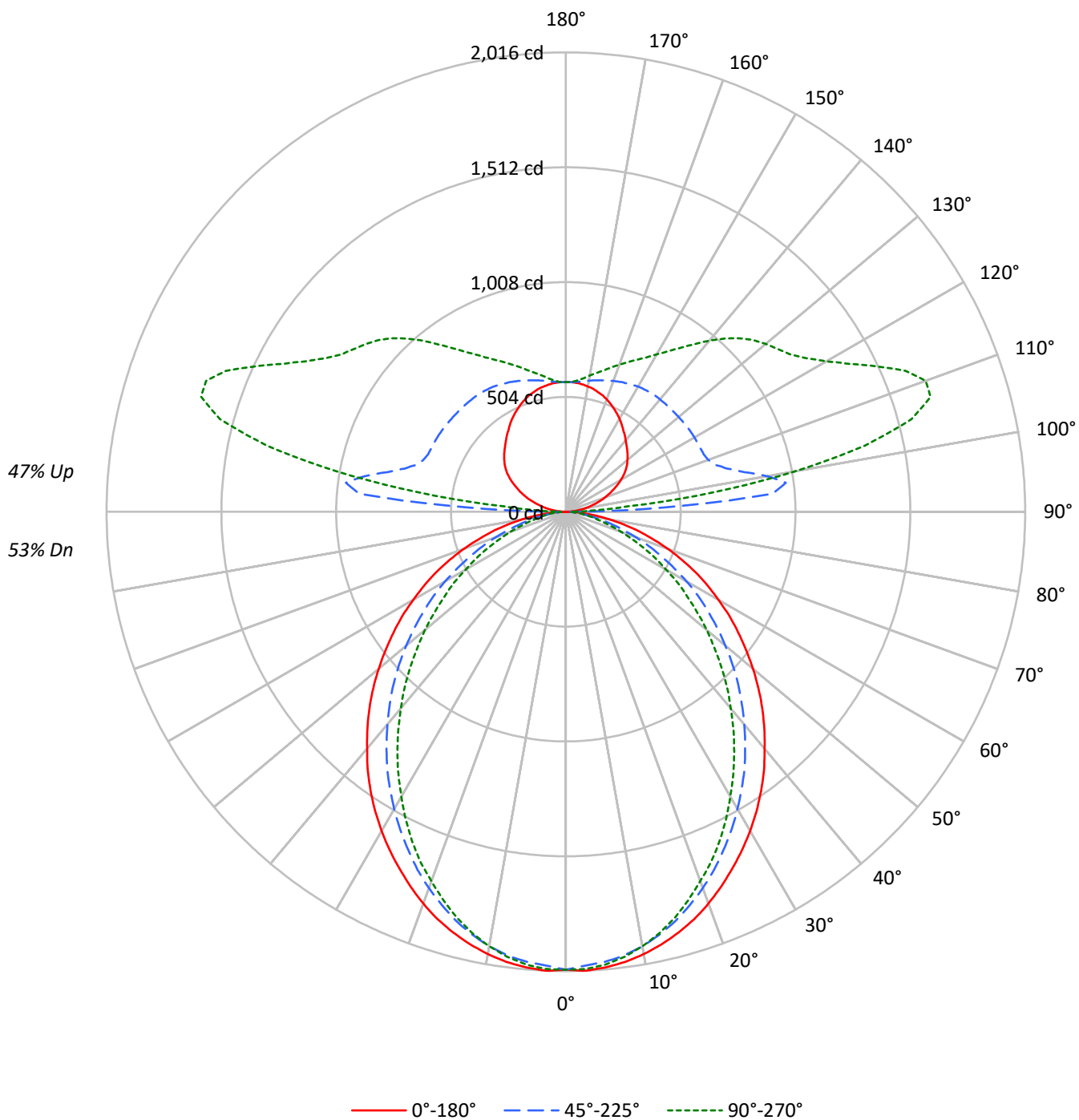
Lumens per Lamp: N/A
Luminaire Lumens: 8794.3 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59
1	99	94	91	87	91	88	84	81	75	73	70	63	62	60	52	51	50
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	46	44	43
3	82	73	66	60	76	68	62	57	58	54	50	50	46	43	41	39	37
4	75	65	57	51	70	60	54	48	52	47	43	44	40	37	37	34	32
5	69	58	50	44	64	54	47	42	47	41	37	40	36	32	34	30	28
6	64	52	44	38	59	49	41	36	42	37	32	36	32	28	31	27	25
7	59	47	39	34	55	44	37	32	38	33	29	33	29	25	28	25	22
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	26	22	20
9	51	39	32	27	48	37	30	25	32	27	23	28	23	20	24	20	18
10	48	36	29	24	44	34	27	23	30	24	21	26	22	18	22	19	16

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	2.1
10°-20°	527.0	6.0
20°-30°	760.8	8.7
30°-40°	862.2	9.8
40°-50°	832.5	9.5
50°-60°	692.1	7.9
60°-70°	477.7	5.4
70°-80°	241.4	2.7
80°-90°	63.5	0.7
90°-100°	422.2	4.8
100°-110°	858.7	9.8
110°-120°	765.4	8.7
120°-130°	642.9	7.3
130°-140°	536.5	6.1
140°-150°	409.8	4.7
150°-160°	288.0	3.3
160°-170°	169.4	1.9
170°-180°	55.1	0.6
0°-30°	1476.7	16.8
0°-40°	2339.0	26.6
0°-60°	3863.6	43.9
0°-90°	4646.2	52.8
90°-120°	2046.3	23.3
90°-150°	3635.6	41.3
90°-180°	4148.0	47.2
0°-180°	8794.3	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	9	20	22	24	7
95°	37	116	910	451	272	40
105°	131	189	732	1577	1571	139
115°	230	289	653	1255	1509	228
125°	320	381	650	1068	1204	286
135°	381	453	644	948	1076	294
145°	439	502	641	800	879	275
155°	499	539	623	706	736	230
165°	544	561	597	633	642	154
175°	567	568	573	581	578	54
180°	568	568	568	568	568	

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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°	1.1	8.9	20.1	22.3	23.5
92.5°	15.6	86.0	437.7	144.6	101.6
95°	36.9	116.2	910.1	450.6	272.5
97.5°	61.4	128.4	973.8	920.2	654.4
100°	84.9	145.2	897.8	1273.0	1024.0
102.5°	107.2	165.2	802.9	1494.2	1345.6
105°	130.7	189.3	732.5	1577.3	1571.2
107.5°	156.3	213.8	686.8	1552.2	1678.4
110°	182.0	238.4	665.5	1462.8	1680.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	206.6	263.0	655.5	1353.4	1614.7
115°	230.0	288.6	653.3	1255.2	1508.6
117.5°	254.6	312.6	652.1	1178.1	1404.8
120°	279.2	336.2	652.1	1126.2	1319.9
122.5°	301.5	359.0	651.0	1092.1	1252.9
125°	320.5	380.8	649.9	1068.1	1203.8
127.5°	338.4	400.9	647.7	1045.2	1172.5
130°	352.9	420.4	646.6	1017.9	1145.7
132.5°	367.4	437.2	645.4	985.5	1115.6
135°	380.8	453.4	644.3	948.1	1076.5
137.5°	394.2	467.4	644.3	907.9	1030.7
140°	408.7	480.2	643.2	868.8	980.5
142.5°	424.3	491.9	643.2	832.4	926.9
145°	438.9	502.5	641.0	799.6	878.8
147.5°	455.6	512.6	637.6	772.2	834.2
150°	471.2	522.0	634.3	747.0	797.3
152.5°	485.8	531.0	628.7	725.8	763.8
155°	499.2	538.8	623.1	705.7	735.9
157.5°	512.6	546.1	617.5	686.8	710.2
160°	524.8	552.2	610.8	667.8	686.8
162.5°	536.0	557.2	604.1	649.3	664.4
165°	543.8	560.6	597.4	632.6	642.1
167.5°	552.8	563.4	590.7	618.1	624.2
170°	558.3	565.6	584.0	603.6	607.5
172.5°	563.9	567.3	577.3	590.7	590.7
175°	567.3	568.4	572.9	580.7	578.4
177.5°	569.5	568.4	569.5	573.4	569.5
180°	568.4	568.4	568.4	568.4	568.4

(END OF REPORT)