

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: P1026126

Luminaire Tested: S124RDIP-B1195D1205UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026126
REPORT IS A COMBINATION OF REPORTS P999086 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1195D1205UB35-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

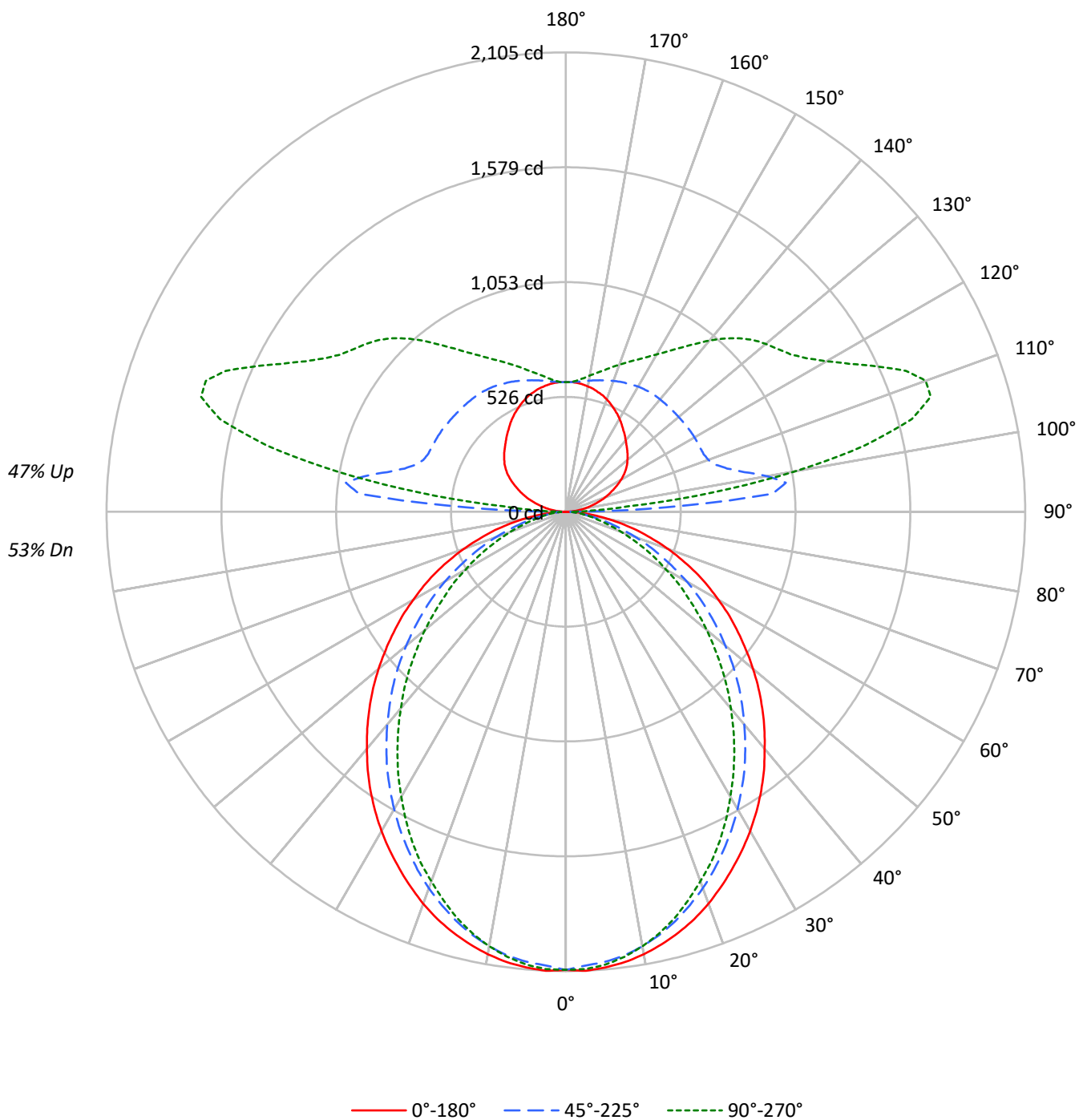
Lumens per Lamp: N/A
Luminaire Lumens: 9184.7 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	21	18	22	19	16

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.4	2.1
10°-20°	550.3	6.0
20°-30°	794.5	8.7
30°-40°	900.5	9.8
40°-50°	869.4	9.5
50°-60°	722.8	7.9
60°-70°	498.9	5.4
70°-80°	252.1	2.7
80°-90°	66.3	0.7
90°-100°	441.0	4.8
100°-110°	896.9	9.8
110°-120°	799.4	8.7
120°-130°	671.5	7.3
130°-140°	560.4	6.1
140°-150°	428.0	4.7
150°-160°	300.8	3.3
160°-170°	176.9	1.9
170°-180°	57.5	0.6
0°-30°	1542.2	16.8
0°-40°	2442.7	26.6
0°-60°	4035.0	43.9
0°-90°	4852.3	52.8
90°-120°	2137.3	23.3
90°-150°	3797.1	41.3
90°-180°	4332.0	47.2
0°-180°	9184.7	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°	1	9	21	23	24	8
95°	38	121	950	471	285	42
105°	136	198	765	1647	1641	145
115°	240	301	682	1311	1576	238
125°	335	398	679	1116	1257	298
135°	398	474	673	990	1124	307
145°	458	525	670	835	918	288
155°	521	563	651	737	769	240
165°	568	586	624	661	671	160
175°	592	594	598	606	604	56
180°	594	594	594	594	594	

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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°	1.2	9.3	21.0	23.3	24.5
92.5°	16.3	89.8	457.2	151.0	106.1
95°	38.5	121.3	950.5	470.6	284.6
97.5°	64.1	134.1	1017.0	961.0	683.4
100°	88.6	151.6	937.7	1329.6	1069.5
102.5°	112.0	172.6	838.6	1560.5	1405.4
105°	136.5	197.7	765.1	1647.4	1641.0
107.5°	163.3	223.4	717.3	1621.2	1752.9
110°	190.1	249.0	695.1	1527.8	1755.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.8	274.6	684.6	1413.6	1686.5
115°	240.3	301.4	682.3	1310.9	1575.7
117.5°	265.9	326.5	681.1	1230.4	1467.2
120°	291.6	351.0	681.1	1176.2	1378.6
122.5°	314.9	375.0	680.0	1140.6	1308.6
125°	334.7	397.7	678.8	1115.6	1257.3
127.5°	353.4	418.7	676.5	1091.6	1224.6
130°	368.5	439.1	675.3	1063.1	1196.6
132.5°	383.7	456.6	674.1	1029.2	1165.1
135°	397.7	473.6	673.0	990.2	1124.3
137.5°	411.7	488.1	673.0	948.2	1076.5
140°	426.9	501.5	671.8	907.4	1024.0
142.5°	443.2	513.8	671.8	869.5	968.0
145°	458.4	524.8	669.5	835.0	917.9
147.5°	475.8	535.4	666.0	806.5	871.2
150°	492.2	545.2	662.5	780.2	832.7
152.5°	507.3	554.6	656.6	758.1	797.7
155°	521.3	562.8	650.8	737.1	768.6
157.5°	535.3	570.3	645.0	717.2	741.8
160°	548.2	576.7	638.0	697.4	717.3
162.5°	559.8	582.0	631.0	678.2	693.9
165°	568.0	585.5	624.0	660.7	670.6
167.5°	577.3	588.4	617.0	645.6	652.0
170°	583.1	590.8	610.0	630.4	634.5
172.5°	589.0	592.4	603.0	617.0	617.0
175°	592.5	593.6	598.3	606.5	604.1
177.5°	594.8	593.6	594.8	598.9	594.8
180°	593.6	593.6	593.6	593.6	593.6

(END OF REPORT)