

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: P1013267

Luminaire Tested: S124RDIP-B1195D1205UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1013267
REPORT IS A COMBINATION OF REPORTS P999070 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1195D1205UB2750-4F0-XX-W2A-F_2700K
Description: Define 4 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

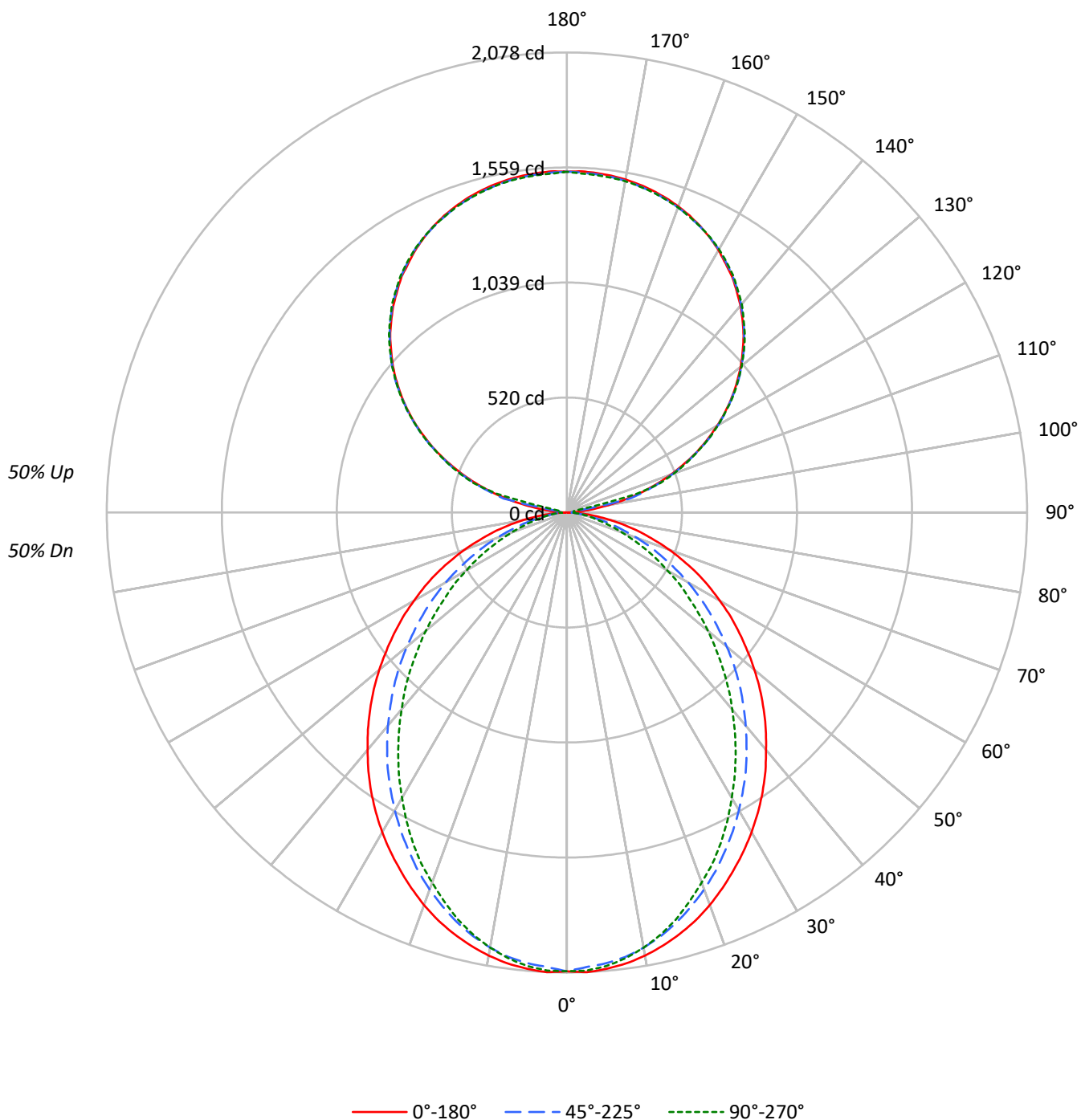
Lumens per Lamp: N/A
Luminaire Lumens: 9554.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
Input Voltage (V): 120
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
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56
1	98	94	90	87	90	87	84	81	74	71	69		61	60	58		50
2	90	82	76	71	82	76	71	67	65	61	58		54	51	49		44
3	82	73	65	60	75	67	61	56	57	53	49		48	45	42		40
4	75	64	57	51	69	60	53	48	51	46	42		43	39	36		36
5	69	57	49	44	63	53	46	41	46	40	36		39	35	31		32
6	64	52	44	38	58	48	41	36	41	36	32		35	31	28		29
7	59	47	39	33	54	44	36	31	38	32	28		32	28	24		27
8	55	42	35	29	50	40	33	28	34	29	25		29	25	22		25
9	51	39	31	26	47	36	30	25	31	26	22		27	23	20		23
10	48	36	28	24	44	33	27	23	29	24	20		25	21	18		21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16898	16898	16898
5°	16899	16395	16397
10°	16756	15878	15689
15°	16525	15234	14854
20°	16223	14500	13902
25°	15847	13707	12972
30°	15479	12899	11927
35°	15073	12079	10906
40°	14590	11197	9857
45°	14138	10322	8818
50°	13624	9367	7764
55°	13068	8387	6675
60°	12451	7347	5600
65°	11856	6154	4565
70°	11010	4899	3488
75°	9922	3563	2440
80°	8287	2188	1753
85°	6236	1261	964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14138 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.9	2.0
10°-20°	543.3	5.7
20°-30°	784.4	8.2
30°-40°	889.0	9.3
40°-50°	858.3	9.0
50°-60°	713.6	7.5
60°-70°	492.5	5.2
70°-80°	248.9	2.6
80°-90°	66.4	0.7
90°-100°	51.1	0.5
100°-110°	336.5	3.5
110°-120°	642.5	6.7
120°-130°	815.7	8.5
130°-140°	872.6	9.1
140°-150°	815.9	8.5
150°-160°	658.0	6.9
160°-170°	424.3	4.4
170°-180°	146.2	1.5
0°-30°	1522.5	15.9
0°-40°	2411.5	25.2
0°-60°	3983.4	41.7
0°-90°	4791.1	50.1
90°-120°	1030.1	10.8
90°-150°	3534.3	37.0
90°-180°	4763.0	49.9
0°-180°	9554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2072	2072	2072	2072	2072	
5°	2069	2063	2044	2060	2056	196
15°	1971	1956	1917	1914	1902	555
25°	1782	1753	1688	1661	1645	821
35°	1541	1490	1410	1357	1328	963
45°	1257	1198	1103	1025	996	969
55°	952	888	785	703	673	852
65°	647	579	478	409	390	639
75°	344	286	211	174	165	363
85°	86	54	49	46	46	94
90°	4	16	25	32	34	8
95°	63	24	25	32	33	78
105°	346	353	359	370	328	363
115°	647	650	649	652	652	637
125°	910	914	912	915	916	812
135°	1128	1127	1132	1134	1136	869
145°	1301	1304	1304	1306	1308	813
155°	1426	1428	1424	1429	1425	658
165°	1505	1499	1499	1508	1498	425
175°	1539	1532	1533	1544	1530	147
180°	1539	1539	1539	1539	1539	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2072.2	2072.2	2072.2	2072.2	2072.2
2.5°	2078.5	2072.2	2054.7	2072.2	2070.6
5°	2069.0	2062.7	2043.6	2059.5	2056.3
7.5°	2054.7	2048.4	2024.6	2035.7	2030.9
10°	2032.5	2024.6	1996.0	2002.4	1996.0
12.5°	2004.0	1994.4	1959.5	1962.7	1953.2
15°	1970.6	1956.4	1916.7	1913.5	1902.4
17.5°	1932.6	1911.9	1865.9	1858.0	1842.1
20°	1886.5	1865.9	1812.0	1799.3	1778.7
22.5°	1835.8	1812.0	1753.3	1732.6	1716.8
25°	1781.8	1753.3	1688.2	1661.2	1645.4
27.5°	1726.3	1691.4	1623.2	1591.4	1569.2
30°	1667.6	1627.9	1553.3	1513.7	1488.3
32.5°	1605.7	1559.7	1481.9	1434.3	1410.5
35°	1540.7	1489.9	1410.5	1356.6	1328.0
37.5°	1472.4	1420.1	1332.8	1274.1	1245.5
40°	1399.4	1347.1	1256.6	1190.0	1161.4
42.5°	1329.6	1274.1	1178.9	1110.7	1080.5
45°	1256.6	1197.9	1102.7	1025.0	996.4
47.5°	1182.1	1121.8	1023.4	942.5	910.7
50°	1105.9	1044.0	942.5	863.1	833.0
52.5°	1028.2	967.9	863.1	782.2	750.5
55°	952.0	888.5	785.4	702.9	672.7
57.5°	877.4	810.8	709.2	625.1	602.9
60°	796.5	733.0	631.5	549.0	523.6
62.5°	723.5	656.9	552.2	477.6	458.5
65°	647.4	579.1	477.6	409.4	390.3
67.5°	568.0	503.0	407.8	347.5	325.3
70°	493.5	426.8	336.4	284.0	268.1
72.5°	414.1	355.4	271.3	228.5	214.2
75°	344.3	285.6	211.0	174.5	165.0
77.5°	271.3	220.5	157.1	131.7	128.5
80°	201.5	155.5	107.9	103.1	101.5
82.5°	141.2	100.0	77.7	74.6	73.0
85°	85.7	53.9	49.2	46.0	46.0
87.5°	36.5	23.8	22.2	20.6	22.2
90°	3.5	16.1	25.3	32.2	34.5
92.5°	17.3	15.0	24.2	31.1	31.1
95°	63.3	24.2	25.3	32.2	33.4
97.5°	120.9	146.2	25.3	31.1	32.2
100°	188.8	209.5	50.7	31.1	32.2
102.5°	264.8	278.6	292.4	33.4	33.4
105°	346.5	353.4	359.2	369.5	328.1
107.5°	421.4	424.8	432.9	438.6	443.2
110°	497.3	500.8	507.7	510.0	513.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	571.0	577.9	580.2	579.1	583.7
115°	647.0	650.4	649.3	651.6	651.6
117.5°	714.9	719.5	723.0	721.8	721.8
120°	784.0	788.6	787.4	789.7	787.4
122.5°	848.5	850.8	853.1	854.2	851.9
125°	909.5	914.1	911.8	915.2	916.4
127.5°	968.2	969.3	975.1	973.9	972.8
130°	1024.6	1025.7	1029.2	1030.4	1030.4
132.5°	1076.4	1078.7	1083.3	1084.5	1083.3
135°	1128.2	1127.1	1131.7	1134.0	1136.3
137.5°	1174.3	1174.3	1180.0	1182.3	1181.2
140°	1219.2	1221.5	1223.8	1227.2	1228.4
142.5°	1259.4	1264.1	1265.2	1267.5	1267.5
145°	1300.9	1304.3	1304.3	1305.5	1307.8
147.5°	1333.1	1340.0	1338.9	1340.0	1341.2
150°	1368.8	1373.4	1372.3	1372.3	1373.4
152.5°	1398.7	1402.2	1399.9	1402.2	1401.1
155°	1426.4	1427.5	1424.1	1428.7	1425.2
157.5°	1450.6	1450.6	1445.9	1451.7	1445.9
160°	1471.3	1467.8	1466.7	1473.6	1466.7
162.5°	1489.7	1485.1	1483.9	1490.8	1482.8
165°	1504.7	1498.9	1498.9	1508.1	1497.8
167.5°	1517.3	1511.6	1510.4	1520.8	1509.3
170°	1527.7	1520.8	1521.9	1531.1	1519.6
172.5°	1534.6	1527.7	1528.8	1538.0	1525.4
175°	1539.2	1532.3	1533.4	1543.8	1530.0
177.5°	1542.7	1534.6	1536.9	1546.1	1532.3
180°	1539.2	1539.2	1539.2	1539.2	1539.2

(END OF REPORT)