

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: P1033258

Luminaire Tested: S124DIW-B1195D1050UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033258
REPORT IS A COMBINATION OF REPORTS P997003 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B1195D1050UB40-4F0-XX-W2A-F
Description: Define 4 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

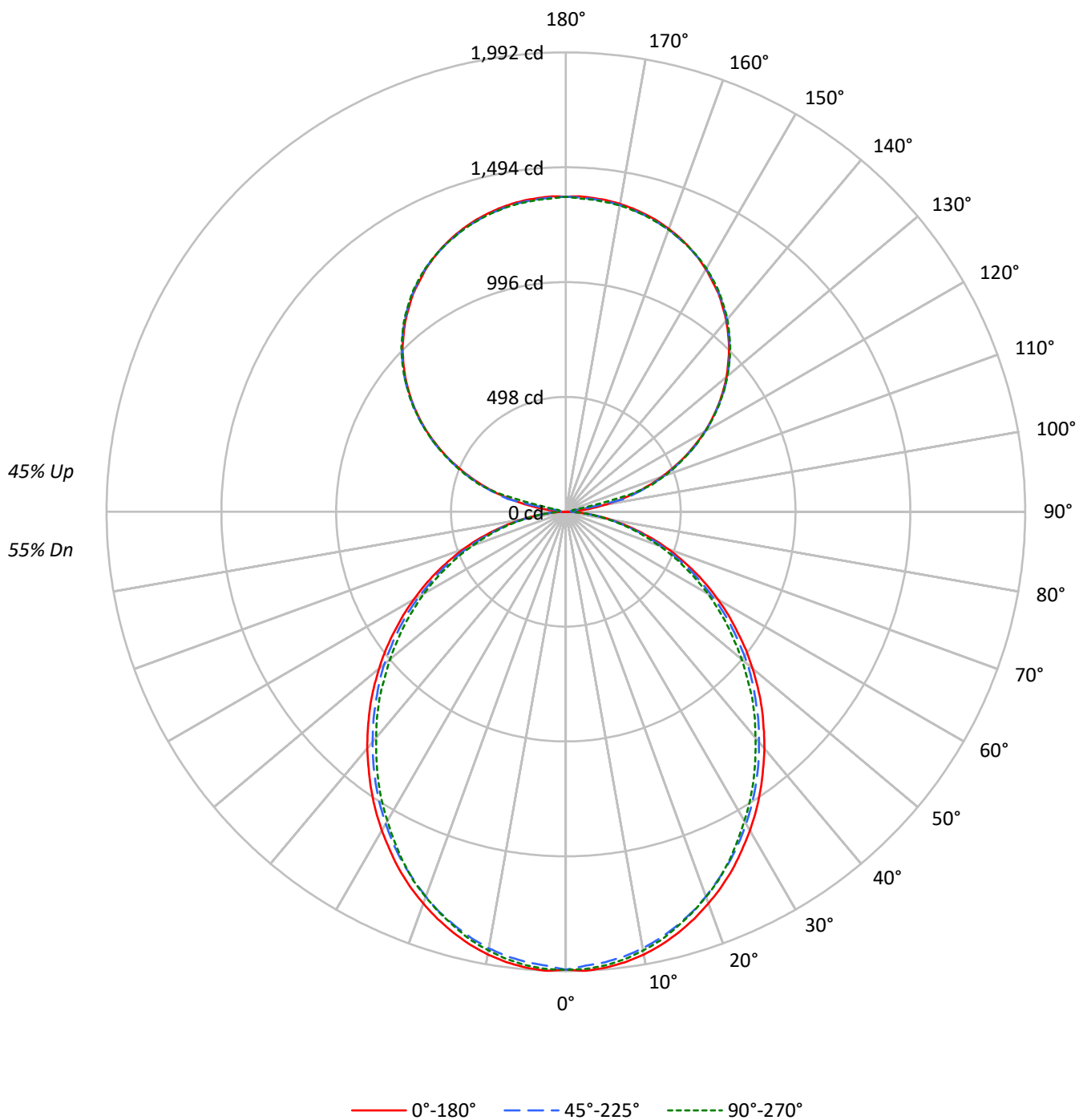
Lumens per Lamp: N/A
Luminaire Lumens: 9327.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 92.8
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60
1	99	94	90	87	92	88	84	81	75	73	71	64	62	60	53	52	51
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	47	45	43
3	82	72	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	31
5	69	57	49	43	64	53	46	41	46	41	36	40	35	32	34	30	27
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21
8	55	42	34	29	51	40	32	28	35	29	25	30	25	22	26	22	19
9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17
10	48	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16193	16193	16193
5°	16206	15728	15747
10°	16069	15291	15184
15°	15839	14772	14549
20°	15545	14210	13892
25°	15213	13617	13184
30°	14814	12976	12407
35°	14400	12318	11656
40°	13969	11612	10857
45°	13517	10904	10111
50°	13016	10216	9284
55°	12472	9414	8463
60°	11915	8534	7608
65°	11277	7627	6644
70°	10544	6534	5610
75°	9446	5267	4493
80°	8049	3809	3161
85°	6251	2119	1702

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	2.0
10°-20°	527.3	5.7
20°-30°	776.1	8.3
30°-40°	902.1	9.7
40°-50°	902.1	9.7
50°-60°	789.0	8.5
60°-70°	585.7	6.3
70°-80°	332.3	3.6
80°-90°	98.0	1.1
90°-100°	45.4	0.5
100°-110°	298.6	3.2
110°-120°	570.3	6.1
120°-130°	723.9	7.8
130°-140°	774.4	8.3
140°-150°	724.2	7.8
150°-160°	584.0	6.3
160°-170°	376.6	4.0
170°-180°	129.8	1.4
0°-30°	1490.6	16.0
0°-40°	2392.7	25.7
0°-60°	4083.7	43.8
0°-90°	5099.8	54.7
90°-120°	914.3	9.8
90°-150°	3136.8	33.6
90°-180°	4227.0	45.3
0°-180°	9327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1986	1986	1986	1986	1986	
5°	1984	1978	1960	1978	1975	188
15°	1889	1882	1858	1868	1863	532
25°	1710	1699	1677	1679	1672	787
35°	1472	1461	1438	1427	1419	920
45°	1201	1190	1165	1147	1142	926
55°	909	904	882	862	853	814
65°	616	608	592	576	568	609
75°	328	320	312	306	304	348
85°	86	86	83	83	81	92
90°	3	14	22	29	31	9
95°	56	22	22	29	30	69
105°	308	314	319	328	291	322
115°	574	577	576	578	578	565
125°	807	811	809	812	813	721
135°	1001	1000	1004	1006	1008	772
145°	1155	1158	1158	1159	1161	721
155°	1266	1267	1264	1268	1265	584
165°	1335	1330	1330	1338	1329	377
175°	1366	1360	1361	1370	1358	130
180°	1366	1366	1366	1366	1366	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1985.8	1985.8	1985.8	1985.8	1985.8
2.5°	1992.2	1987.4	1969.9	1985.8	1984.2
5°	1984.2	1977.9	1960.4	1977.9	1974.7
7.5°	1969.9	1963.5	1944.5	1958.8	1957.2
10°	1949.2	1942.9	1922.2	1934.9	1931.7
12.5°	1922.2	1915.8	1893.5	1907.9	1903.1
15°	1888.8	1882.4	1858.5	1868.1	1863.3
17.5°	1850.6	1842.6	1820.3	1826.7	1823.5
20°	1807.6	1799.7	1775.8	1780.6	1777.4
22.5°	1761.5	1750.3	1726.5	1736.0	1729.6
25°	1710.5	1699.4	1677.1	1678.7	1672.4
27.5°	1653.3	1642.1	1621.4	1618.3	1610.3
30°	1596.0	1583.2	1562.6	1556.2	1548.2
32.5°	1535.5	1524.4	1502.1	1494.1	1486.2
35°	1471.9	1460.7	1438.4	1427.3	1419.4
37.5°	1405.0	1395.5	1371.6	1360.5	1349.3
40°	1339.8	1327.1	1303.2	1287.3	1279.3
42.5°	1269.8	1263.4	1236.4	1217.3	1212.5
45°	1201.4	1190.2	1164.8	1147.3	1142.5
47.5°	1129.8	1121.8	1097.9	1078.8	1066.1
50°	1056.6	1050.2	1027.9	1005.6	996.1
52.5°	985.0	977.0	953.1	934.0	921.3
55°	908.6	903.8	881.5	862.4	852.9
57.5°	837.0	832.2	809.9	790.8	781.3
60°	762.2	754.2	733.5	719.2	711.3
62.5°	689.0	682.6	660.3	647.6	639.7
65°	615.8	607.8	591.9	576.0	568.1
67.5°	541.0	534.6	518.7	502.8	501.2
70°	472.6	461.4	448.7	436.0	431.2
72.5°	399.4	388.3	378.7	369.2	364.4
75°	327.8	319.8	311.9	305.5	303.9
77.5°	257.8	254.6	246.6	245.0	240.3
80°	195.7	190.9	187.8	184.6	183.0
82.5°	135.3	133.7	133.7	132.1	130.5
85°	85.9	85.9	82.7	82.7	81.2
87.5°	41.4	39.8	38.2	38.2	38.2
90°	3.1	14.3	22.5	28.6	30.7
92.5°	15.3	13.3	21.5	27.6	27.6
95°	56.2	21.5	22.5	28.6	29.6
97.5°	107.3	129.8	22.5	27.6	28.6
100°	167.6	186.0	45.0	27.6	28.6
102.5°	235.0	247.3	259.5	29.6	29.6
105°	307.6	313.7	318.8	328.0	291.2
107.5°	374.0	377.0	384.2	389.3	393.4
110°	441.4	444.5	450.6	452.6	455.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	506.8	512.9	515.0	513.9	518.0
115°	574.2	577.3	576.3	578.3	578.3
117.5°	634.5	638.6	641.7	640.6	640.6
120°	695.8	699.9	698.9	700.9	698.9
122.5°	753.0	755.1	757.1	758.1	756.1
125°	807.2	811.3	809.2	812.3	813.3
127.5°	859.3	860.3	865.4	864.4	863.4
130°	909.4	910.4	913.5	914.5	914.5
132.5°	955.3	957.4	961.5	962.5	961.5
135°	1001.3	1000.3	1004.4	1006.4	1008.5
137.5°	1042.2	1042.2	1047.3	1049.3	1048.3
140°	1082.0	1084.1	1086.1	1089.2	1090.2
142.5°	1117.8	1121.9	1122.9	1125.0	1125.0
145°	1154.6	1157.7	1157.7	1158.7	1160.7
147.5°	1183.2	1189.3	1188.3	1189.3	1190.4
150°	1214.9	1219.0	1217.9	1217.9	1219.0
152.5°	1241.4	1244.5	1242.5	1244.5	1243.5
155°	1266.0	1267.0	1263.9	1268.0	1264.9
157.5°	1287.4	1287.4	1283.3	1288.4	1283.3
160°	1305.8	1302.7	1301.7	1307.9	1301.7
162.5°	1322.2	1318.1	1317.1	1323.2	1316.0
165°	1335.4	1330.3	1330.3	1338.5	1329.3
167.5°	1346.7	1341.6	1340.6	1349.7	1339.5
170°	1355.9	1349.7	1350.8	1358.9	1348.7
172.5°	1362.0	1355.9	1356.9	1365.1	1353.8
175°	1366.1	1360.0	1361.0	1370.2	1357.9
177.5°	1369.2	1362.0	1364.1	1372.2	1360.0
180°	1366.1	1366.1	1366.1	1366.1	1366.1

(END OF REPORT)