

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: P1033311

Luminaire Tested: S124DIW-B1195D1560UB35-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033311
REPORT IS A COMBINATION OF REPORTS P997124 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B1195D1560UB35-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

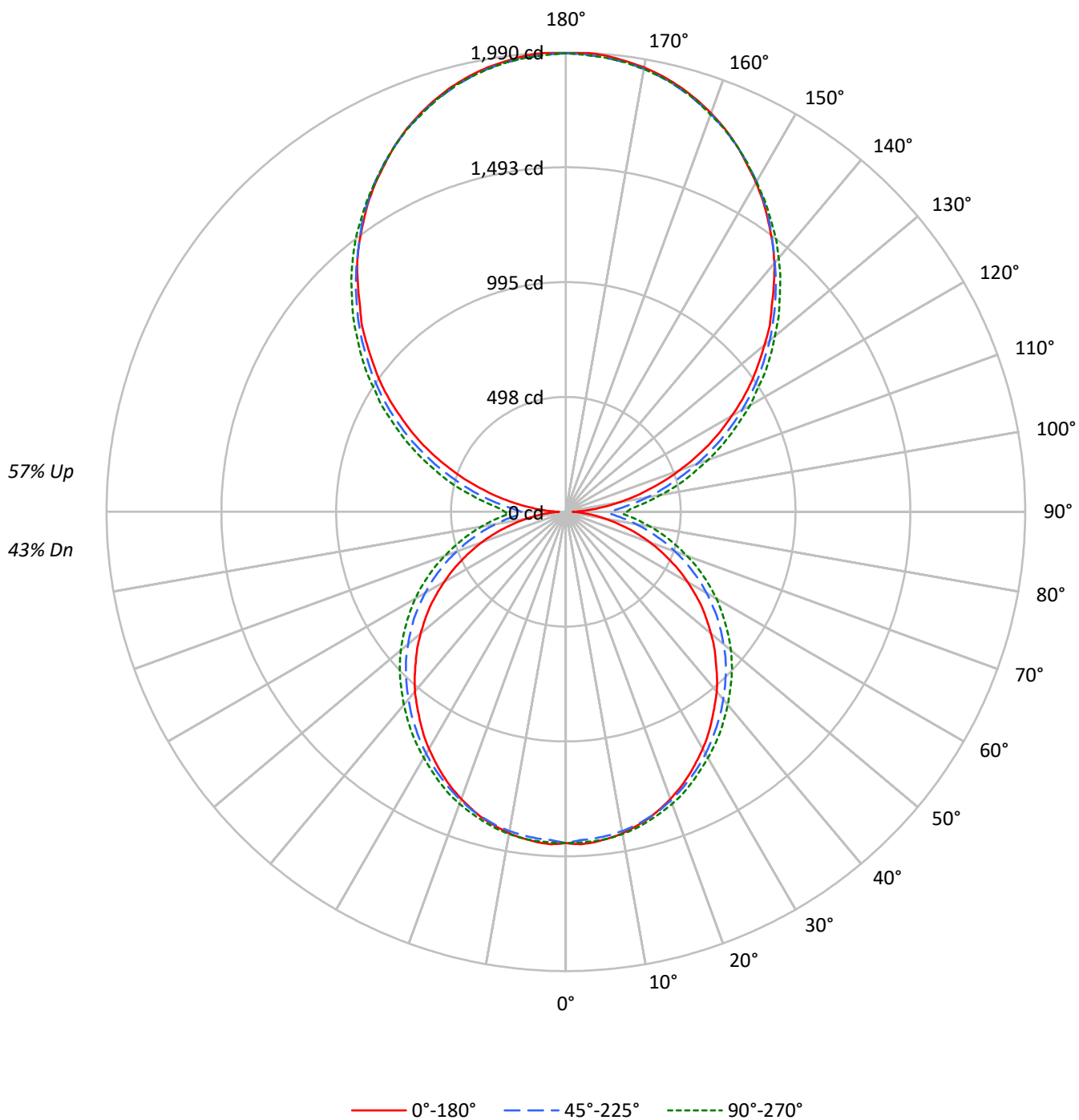
Lumens per Lamp: N/A
Luminaire Lumens: 10410.0 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 113.5
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50
1	95	91	87	83	87	83	79	76	69	66	64	55	53	52	43	42	41
2	87	79	72	67	79	72	66	62	59	55	52	48	45	42	37	35	33
3	79	69	61	55	71	63	56	51	52	47	43	42	38	35	33	30	28
4	72	61	53	46	65	56	49	43	46	41	36	37	33	30	29	26	24
5	66	54	46	39	60	49	42	37	41	35	31	33	29	26	26	23	21
6	60	48	40	34	55	44	37	32	37	31	27	30	26	23	24	20	18
7	56	43	35	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	39	31	26	47	36	29	24	30	25	21	25	21	18	20	17	14
9	48	36	28	23	44	33	26	22	28	22	19	23	19	16	18	15	13
10	45	33	25	21	41	30	24	19	25	20	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11702	11702	11702
5°	11735	11398	11418
10°	11659	11173	11142
15°	11550	10922	10829
20°	11388	10649	10526
25°	11206	10347	10199
30°	11008	10049	9865
35°	10786	9744	9569
40°	10607	9452	9261
45°	10343	9176	8989
50°	10116	8864	8702
55°	9883	8564	8372
60°	9521	8190	8061
65°	9124	7787	7687
70°	8641	7325	7256
75°	7965	6812	6843
80°	7206	6291	6412
85°	6200	5766	6064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10343 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	1.3
10°-20°	389.6	3.7
20°-30°	589.1	5.7
30°-40°	712.7	6.8
40°-50°	753.4	7.2
50°-60°	709.1	6.8
60°-70°	588.4	5.7
70°-80°	412.9	4.0
80°-90°	237.0	2.3
90°-100°	268.1	2.6
100°-110°	490.5	4.7
110°-120°	727.8	7.0
120°-130°	907.9	8.7
130°-140°	992.9	9.5
140°-150°	962.7	9.2
150°-160°	806.9	7.8
160°-170°	536.9	5.2
170°-180°	188.0	1.8
0°-30°	1114.7	10.7
0°-40°	1827.4	17.6
0°-60°	3289.9	31.6
0°-90°	4528.3	43.5
90°-120°	1486.5	14.3
90°-150°	4349.9	41.8
90°-180°	5882.0	56.5
0°-180°	10410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1435	1435	1435	1435	1435	
5°	1437	1432	1421	1434	1432	136
15°	1377	1379	1374	1388	1387	388
25°	1260	1270	1274	1292	1294	580
35°	1102	1122	1138	1160	1165	690
45°	919	950	980	1008	1016	710
55°	720	754	802	834	844	642
65°	498	550	604	644	657	494
75°	276	336	403	448	463	294
85°	85	153	225	273	289	89
90°	30	112	193	249	265	24
95°	113	180	257	305	319	117
105°	372	406	472	516	534	396
115°	680	694	742	776	786	671
125°	982	980	1019	1047	1053	876
135°	1262	1271	1282	1305	1310	977
145°	1530	1535	1537	1545	1547	958
155°	1752	1752	1750	1756	1750	806
165°	1907	1902	1899	1908	1902	538
175°	1984	1976	1974	1985	1974	188
180°	1987	1987	1987	1987	1987	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1441.6	1436.8	1423.9	1435.1	1433.5
5°	1436.8	1431.9	1420.7	1433.5	1431.9
7.5°	1427.1	1423.9	1414.3	1428.7	1427.1
10°	1414.3	1412.6	1404.6	1419.1	1417.5
12.5°	1396.6	1396.6	1391.8	1404.6	1404.6
15°	1377.3	1378.9	1374.1	1388.5	1386.9
17.5°	1351.6	1356.4	1354.8	1369.3	1367.6
20°	1324.3	1329.1	1330.7	1346.8	1346.8
22.5°	1293.7	1300.1	1303.4	1319.4	1322.6
25°	1260.0	1269.6	1274.4	1292.1	1293.7
27.5°	1223.0	1237.5	1243.9	1260.0	1261.6
30°	1186.0	1198.9	1210.2	1227.8	1231.0
32.5°	1145.9	1161.9	1174.8	1195.7	1198.9
35°	1102.5	1121.8	1137.8	1160.3	1165.2
37.5°	1059.1	1081.6	1100.9	1123.4	1128.2
40°	1017.3	1038.2	1060.7	1084.8	1091.2
42.5°	969.1	993.2	1020.5	1047.8	1052.7
45°	919.3	949.8	980.3	1007.7	1015.7
47.5°	872.7	903.2	938.5	965.9	975.5
50°	821.2	856.6	891.9	924.1	933.7
52.5°	769.8	805.2	846.9	879.1	888.7
55°	720.0	753.7	801.9	834.1	843.7
57.5°	663.7	705.5	752.1	790.7	798.7
60°	609.1	650.9	703.9	740.9	753.7
62.5°	556.1	602.7	655.7	692.7	705.5
65°	498.2	549.6	604.3	644.4	657.3
67.5°	443.6	498.2	556.1	596.2	609.1
70°	387.3	442.0	503.0	546.4	557.7
72.5°	332.7	388.9	454.8	496.6	509.5
75°	276.4	335.9	403.4	448.4	462.8
77.5°	223.4	286.1	356.8	401.8	417.8
80°	175.2	239.5	310.2	358.4	371.2
82.5°	127.0	194.5	265.2	315.0	329.5
85°	85.2	152.7	225.0	273.2	289.3
87.5°	53.0	118.9	189.6	236.2	250.7
90°	30.3	111.5	192.9	248.7	264.7
92.5°	64.1	140.3	217.1	266.7	281.1
95°	113.1	179.9	256.6	304.6	319.1
97.5°	166.8	225.7	303.9	351.8	366.2
100°	232.8	280.8	357.2	403.7	415.0
102.5°	303.5	340.3	413.7	460.1	474.5
105°	372.5	406.2	471.8	516.5	534.0
107.5°	447.8	476.7	534.4	580.7	590.5
110°	523.1	548.6	603.3	637.2	654.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	601.3	620.6	670.6	705.9	718.8
115°	679.6	694.1	742.4	776.3	785.9
117.5°	754.9	764.6	811.2	840.3	848.6
120°	828.6	839.6	881.6	906.0	922.0
122.5°	906.9	908.5	950.3	977.9	981.4
125°	982.1	980.5	1019.2	1046.6	1053.3
127.5°	1051.3	1054.3	1083.4	1109.3	1118.9
130°	1123.5	1126.5	1152.2	1178.1	1181.5
132.5°	1198.7	1200.2	1218.0	1242.2	1250.4
135°	1261.7	1270.9	1282.2	1304.8	1309.8
137.5°	1333.9	1336.9	1346.4	1365.9	1375.5
140°	1406.1	1407.6	1409.2	1428.6	1435.0
142.5°	1470.6	1473.7	1470.5	1488.2	1494.6
145°	1530.5	1535.1	1536.6	1544.7	1546.6
147.5°	1592.0	1598.1	1596.5	1596.6	1601.5
150°	1647.3	1651.9	1651.9	1651.9	1650.3
152.5°	1698.0	1701.0	1702.6	1707.2	1702.6
155°	1751.7	1751.7	1750.2	1756.3	1750.2
157.5°	1797.8	1794.8	1794.8	1799.4	1794.8
160°	1837.8	1836.3	1834.7	1839.3	1831.6
162.5°	1874.7	1870.1	1868.5	1877.7	1870.1
165°	1906.9	1902.3	1899.3	1908.5	1902.3
167.5°	1933.1	1926.9	1926.9	1936.1	1926.9
170°	1954.6	1946.9	1948.4	1957.6	1946.9
172.5°	1969.9	1963.8	1963.8	1974.5	1963.8
175°	1983.8	1976.1	1974.5	1985.3	1974.5
177.5°	1989.9	1982.2	1982.2	1993.0	1980.7
180°	1986.8	1986.8	1986.8	1986.8	1986.8

(END OF REPORT)