

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: P1033283

Luminaire Tested: S124DIW-B1195D1340UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033283
REPORT IS A COMBINATION OF REPORTS P997061 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B1195D1340UB35-4F0-XX-W2A-F1
Description: Define 4 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

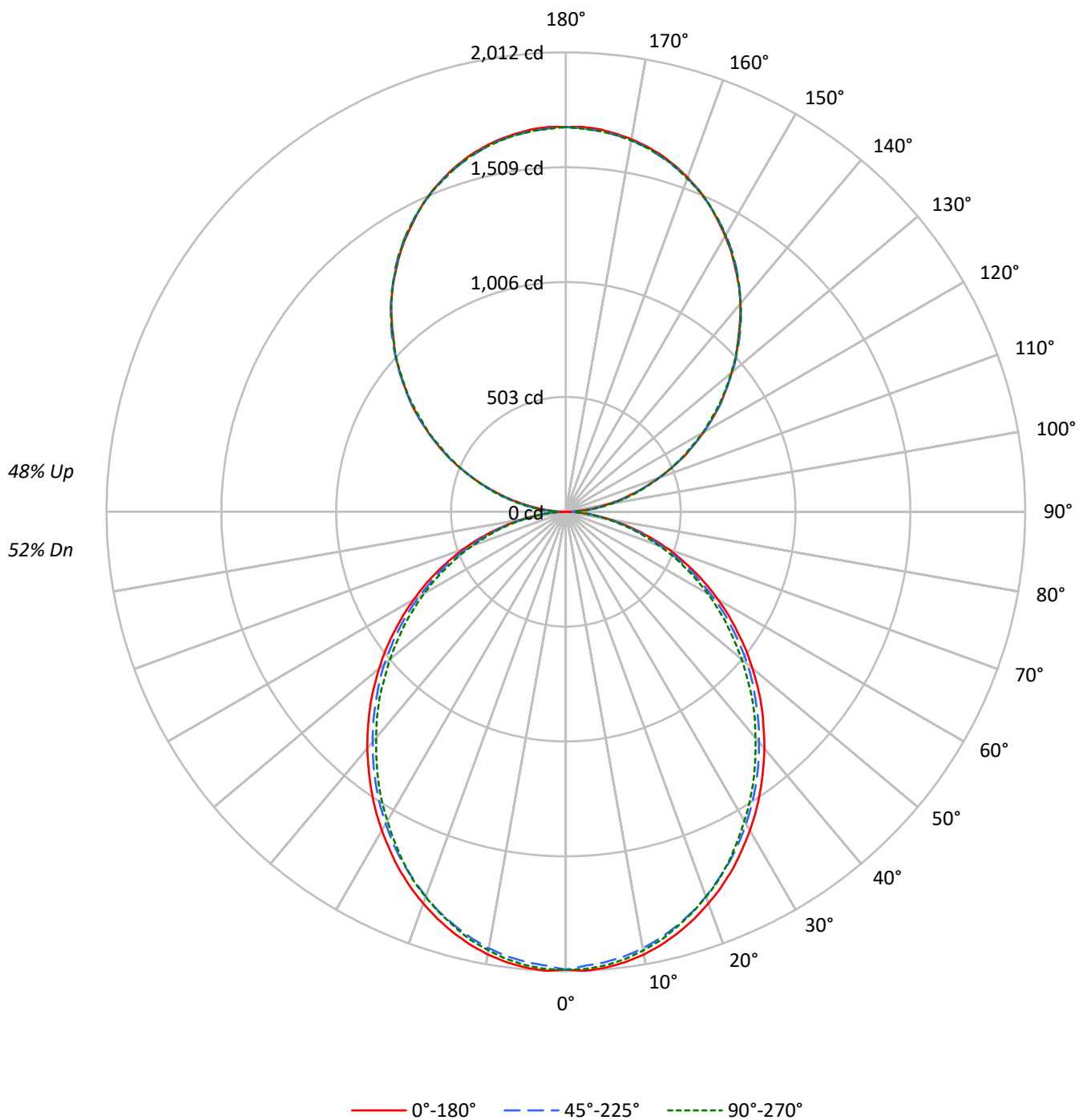
Lumens per Lamp: N/A
Luminaire Lumens: 9826.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 103.4
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	58	58	58
1	98	94	90	86	91	87	84	81	74	72	69	62	61	59	52	50	49
2	89	82	76	71	83	76	71	66	65	61	58	55	52	49	45	43	41
3	82	72	65	59	75	67	60	55	57	52	48	48	45	42	40	38	35
4	75	64	56	50	69	59	52	47	51	46	41	43	39	36	36	33	30
5	69	57	49	43	63	53	46	40	46	40	36	39	34	31	32	29	26
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	29	26	23
7	58	46	38	32	54	43	36	31	37	32	27	32	27	24	27	23	21
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	19
9	51	38	31	26	47	36	29	24	31	26	22	27	22	19	23	19	17
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16355	16355	16355
5°	16369	15885	15904
10°	16230	15444	15336
15°	15998	14919	14694
20°	15700	14353	14031
25°	15366	13753	13316
30°	14962	13105	12531
35°	14544	12442	11773
40°	14109	11728	10966
45°	13652	11012	10212
50°	13146	10318	9377
55°	12597	9508	8547
60°	12034	8620	7684
65°	11391	7704	6709
70°	10648	6599	5666
75°	9542	5320	4539
80°	8131	3845	3192
85°	6316	2142	1719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13652 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	1.9
10°-20°	532.6	5.4
20°-30°	783.8	8.0
30°-40°	911.2	9.3
40°-50°	911.1	9.3
50°-60°	796.9	8.1
60°-70°	591.6	6.0
70°-80°	335.7	3.4
80°-90°	99.7	1.0
90°-100°	109.8	1.1
100°-110°	328.9	3.3
110°-120°	558.8	5.7
120°-130°	736.9	7.5
130°-140°	827.7	8.4
140°-150°	813.5	8.3
150°-160°	684.2	7.0
160°-170°	455.2	4.6
170°-180°	159.4	1.6
0°-30°	1505.5	15.3
0°-40°	2416.7	24.6
0°-60°	4124.6	42.0
0°-90°	5151.6	52.4
90°-120°	997.5	10.2
90°-150°	3375.5	34.4
90°-180°	4674.0	47.6
0°-180°	9826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2006	2006	2006	2006	2006	
5°	2004	1998	1980	1998	1994	190
15°	1908	1901	1877	1887	1882	538
25°	1728	1716	1694	1696	1689	795
35°	1487	1475	1453	1442	1434	930
45°	1213	1202	1176	1159	1154	935
55°	918	913	890	871	861	822
65°	622	614	598	582	574	616
75°	331	323	315	309	307	351
85°	87	87	84	84	82	93
90°	4	18	29	36	39	11
95°	78	90	99	103	103	85
105°	304	305	310	314	318	322
115°	568	568	566	564	563	560
125°	827	827	826	824	821	738
135°	1067	1075	1075	1072	1068	826
145°	1296	1302	1303	1302	1298	811
155°	1485	1485	1484	1489	1484	684
165°	1617	1613	1610	1618	1613	456
175°	1682	1676	1674	1683	1674	160
180°	1685	1685	1685	1685	1685	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2005.7	2005.7	2005.7	2005.7	2005.7
2.5°	2012.1	2007.3	1989.6	2005.7	2004.1
5°	2004.1	1997.7	1980.0	1997.7	1994.4
7.5°	1989.6	1983.2	1963.9	1978.4	1976.8
10°	1968.7	1962.3	1941.4	1954.3	1951.1
12.5°	1941.4	1935.0	1912.5	1926.9	1922.1
15°	1907.7	1901.2	1877.1	1886.8	1881.9
17.5°	1869.1	1861.1	1838.6	1845.0	1841.8
20°	1825.7	1817.7	1793.6	1798.4	1795.2
22.5°	1779.1	1767.8	1743.7	1753.4	1746.9
25°	1727.7	1716.4	1693.9	1695.5	1689.1
27.5°	1669.8	1658.6	1637.7	1634.4	1626.4
30°	1611.9	1599.1	1578.2	1571.8	1563.7
32.5°	1550.9	1539.6	1517.1	1509.1	1501.1
35°	1486.6	1475.3	1452.8	1441.6	1433.6
37.5°	1419.1	1409.4	1385.3	1374.1	1362.8
40°	1353.2	1340.3	1316.2	1300.2	1292.1
42.5°	1282.5	1276.1	1248.7	1229.5	1224.6
45°	1213.4	1202.1	1176.4	1158.7	1153.9
47.5°	1141.1	1133.0	1108.9	1089.6	1076.8
50°	1067.1	1060.7	1038.2	1015.7	1006.1
52.5°	994.8	986.8	962.7	943.4	930.5
55°	917.7	912.8	890.3	871.1	861.4
57.5°	845.3	840.5	818.0	798.7	789.1
60°	769.8	761.8	740.9	726.4	718.4
62.5°	695.9	689.5	667.0	654.1	646.1
65°	622.0	613.9	597.9	581.8	573.7
67.5°	546.4	540.0	523.9	507.9	506.2
70°	477.3	466.1	453.2	440.4	435.5
72.5°	403.4	392.1	382.5	372.9	368.0
75°	331.1	323.0	315.0	308.6	307.0
77.5°	260.4	257.1	249.1	247.5	242.7
80°	197.7	192.9	189.6	186.4	184.8
82.5°	136.6	135.0	135.0	133.4	131.8
85°	86.8	86.8	83.6	83.6	82.0
87.5°	41.8	40.2	38.6	38.6	38.6
90°	3.9	18.2	28.7	36.5	39.1
92.5°	33.9	50.8	57.3	61.2	62.5
95°	78.2	89.9	99.0	102.9	102.9
97.5°	125.1	135.5	145.9	151.1	151.1
100°	182.4	187.6	199.3	202.0	202.0
102.5°	242.3	243.6	254.1	258.0	259.3
105°	303.6	304.9	310.1	314.0	317.9
107.5°	367.4	368.7	370.0	375.2	373.9
110°	432.6	435.2	433.9	431.3	435.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	500.3	500.3	497.7	497.7	497.7
115°	568.1	568.1	565.5	564.2	562.9
117.5°	631.9	631.9	630.6	626.7	622.8
120°	695.8	701.0	697.1	690.6	693.2
122.5°	762.2	763.5	762.2	758.3	751.8
125°	827.4	827.4	826.1	823.5	820.8
127.5°	886.0	889.9	887.3	884.7	883.4
130°	948.5	952.4	952.4	949.8	944.6
132.5°	1012.4	1015.0	1013.7	1011.1	1009.8
135°	1067.1	1074.9	1074.9	1072.3	1068.4
137.5°	1128.3	1132.2	1134.9	1130.9	1132.2
140°	1189.6	1192.2	1192.2	1190.9	1189.6
142.5°	1245.6	1248.2	1246.9	1246.9	1246.9
145°	1296.4	1301.6	1302.9	1301.6	1297.7
147.5°	1348.5	1355.0	1353.7	1352.4	1351.1
150°	1395.4	1400.7	1400.7	1400.7	1399.3
152.5°	1439.7	1442.3	1443.6	1447.6	1443.6
155°	1485.3	1485.3	1484.0	1489.3	1484.0
157.5°	1524.4	1521.8	1521.8	1525.7	1521.8
160°	1558.3	1557.0	1555.7	1559.6	1553.1
162.5°	1589.6	1585.7	1584.4	1592.2	1585.7
165°	1616.9	1613.0	1610.4	1618.2	1613.0
167.5°	1639.1	1633.9	1633.9	1641.7	1633.9
170°	1657.3	1650.8	1652.1	1659.9	1650.8
172.5°	1670.4	1665.1	1665.1	1674.3	1665.1
175°	1682.1	1675.6	1674.3	1683.4	1674.3
177.5°	1687.3	1680.8	1680.8	1689.9	1679.5
180°	1684.7	1684.7	1684.7	1684.7	1684.7

(END OF REPORT)