

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: P1034426

Luminaire Tested: S125DIW-B1270D1560UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034426
REPORT IS A COMBINATION OF REPORTS P1003200 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1560UB2750-4F0-XX-W2A-D_3000K
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

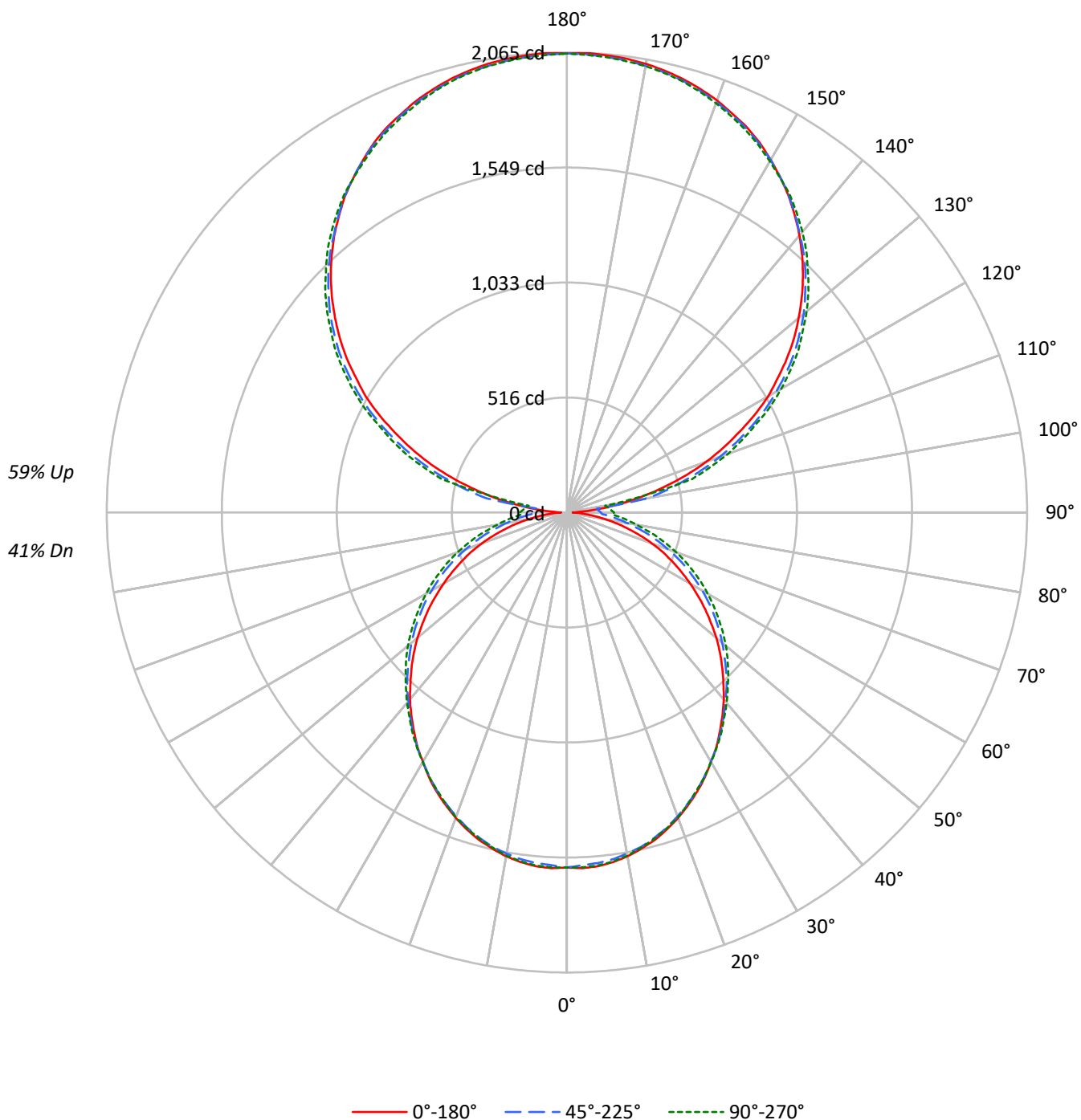
Lumens per Lamp: N/A
Luminaire Lumens: 11269.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1034426

CATALOG NUMBER: S125DIW-B1270D1560UB2750-4F0-XX-W2A-D_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1034426

CATALOG NUMBER: S125DIW-B1270D1560UB2750-4F0-XX-W2A-D_3000K

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	50	30	10
RCR																				
0	105	105	105	105	96	96	96	96	78	78	78	63	63	63	48	48	48			41
1	95	91	87	83	87	83	79	76	68	65	63	54	52	51	41	40	39			33
2	86	79	73	67	78	72	67	62	59	55	52	47	44	42	36	34	33			28
3	79	69	62	56	71	63	57	51	52	47	43	41	38	35	32	29	27			23
4	72	61	53	47	65	56	49	43	46	41	37	37	33	30	28	26	24			20
5	66	54	46	40	60	50	42	37	41	36	31	33	29	26	25	23	20			17
6	61	48	40	34	55	44	37	32	37	31	27	30	26	22	23	20	18			15
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16			13
8	52	40	32	26	47	36	29	25	30	25	21	25	21	18	19	16	14			12
9	48	36	29	23	44	33	26	22	28	22	19	23	19	16	18	15	13			10
10	45	33	26	21	41	30	24	20	25	20	17	21	17	14	16	14	12			9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10211	10211	10211
5°	10228	9997	10021
10°	10151	9793	9765
15°	10027	9556	9450
20°	9860	9269	9137
25°	9663	8965	8759
30°	9423	8632	8414
35°	9200	8326	8097
40°	8973	8003	7777
45°	8715	7723	7490
50°	8469	7419	7230
55°	8173	7129	6929
60°	7848	6799	6620
65°	7510	6451	6273
70°	7120	5985	5910
75°	6510	5524	5469
80°	5707	4966	4980
85°	4911	4519	4723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8715 cd/sqm

TEST NUMBER: P1034426

CATALOG NUMBER: S125DIW-B1270D1560UB2750-4F0-XX-W2A-D_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	1.3
10°-20°	428.1	3.8
20°-30°	636.6	5.6
30°-40°	754.0	6.7
40°-50°	779.5	6.9
50°-60°	718.0	6.4
60°-70°	580.5	5.2
70°-80°	388.4	3.4
80°-90°	203.8	1.8
90°-100°	183.0	1.6
100°-110°	548.3	4.9
110°-120°	893.2	7.9
120°-130°	1106.4	9.8
130°-140°	1169.8	10.4
140°-150°	1087.7	9.7
150°-160°	877.6	7.8
160°-170°	567.6	5.0
170°-180°	195.7	1.7
0°-30°	1215.5	10.8
0°-40°	1969.5	17.5
0°-60°	3467.0	30.8
0°-90°	4639.7	41.2
90°-120°	1624.5	14.4
90°-150°	4988.4	44.3
90°-180°	6629.0	58.8
0°-180°	11269.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1594	1591	1580	1592	1591	151
15°	1522	1523	1512	1522	1516	429
25°	1383	1388	1378	1384	1376	637
35°	1197	1208	1203	1208	1208	749
45°	986	1003	1011	1022	1023	761
55°	758	783	808	825	831	677
65°	522	558	595	619	625	518
75°	288	328	378	409	417	305
85°	86	138	192	227	239	90
90°	26	89	152	196	212	22
95°	107	143	138	180	192	123
105°	463	494	541	572	582	491
115°	852	871	913	935	935	845
125°	1205	1214	1246	1264	1268	1076
135°	1498	1506	1514	1531	1530	1155
145°	1735	1737	1737	1746	1743	1085
155°	1909	1900	1903	1908	1895	880
165°	2014	2005	2007	2016	2004	569
175°	2060	2051	2053	2065	2051	196
180°	2060	2060	2060	2060	2060	

TEST NUMBER: P1034426

CATALOG NUMBER: S125DIW-B1270D1560UB2750-4F0-XX-W2A-D_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.7	1593.7	1593.7	1593.7	1593.7
2.5°	1598.4	1595.3	1584.3	1595.3	1593.7
5°	1593.7	1590.6	1579.6	1592.1	1590.6
7.5°	1582.8	1581.2	1570.3	1581.2	1579.6
10°	1567.1	1567.1	1554.6	1565.6	1564.0
12.5°	1545.3	1546.8	1537.5	1545.3	1540.6
15°	1521.8	1523.4	1512.5	1521.8	1515.6
17.5°	1492.1	1495.3	1484.3	1492.1	1487.5
20°	1459.3	1462.5	1451.5	1456.2	1456.2
22.5°	1421.8	1428.1	1415.6	1421.8	1417.1
25°	1382.8	1387.5	1378.1	1384.3	1376.5
27.5°	1340.6	1346.8	1335.9	1340.6	1337.5
30°	1292.1	1301.5	1292.1	1295.3	1293.7
32.5°	1248.4	1256.2	1250.0	1253.1	1251.5
35°	1196.8	1207.8	1203.1	1207.8	1207.8
37.5°	1146.8	1156.2	1154.7	1160.9	1159.3
40°	1095.3	1107.8	1106.2	1112.5	1115.6
42.5°	1039.0	1056.2	1060.9	1068.7	1068.7
45°	985.9	1003.1	1010.9	1021.8	1023.4
47.5°	931.2	946.8	959.3	975.0	978.1
50°	875.0	892.2	909.3	926.5	931.2
52.5°	815.6	837.5	859.3	878.1	881.2
55°	757.8	782.8	807.8	825.0	831.2
57.5°	698.4	728.1	756.2	775.0	779.7
60°	639.0	670.3	701.5	725.0	729.7
62.5°	581.2	612.5	646.9	673.4	679.7
65°	521.9	557.8	595.3	618.7	625.0
67.5°	467.2	501.5	539.0	567.2	575.0
70°	406.2	442.2	482.8	512.5	521.9
72.5°	346.9	384.4	429.7	462.5	468.7
75°	287.5	328.1	378.1	409.4	417.2
77.5°	229.7	276.6	323.4	357.8	364.1
80°	176.6	223.4	276.6	310.9	317.2
82.5°	128.1	178.1	232.8	265.6	278.1
85°	85.9	137.5	192.2	226.6	239.1
87.5°	54.7	104.7	157.8	193.7	204.7
90°	26.5	88.7	152.5	196.2	211.7
92.5°	50.9	82.5	146.3	188.3	200.8
95°	107.4	143.4	138.5	180.5	191.5
97.5°	182.1	228.8	135.3	171.1	183.7
100°	272.3	309.6	365.8	171.0	174.3
102.5°	363.8	399.6	451.1	485.4	366.6
105°	463.1	494.2	541.0	572.3	581.7
107.5°	565.4	587.3	635.6	668.4	671.7
110°	664.6	683.4	730.1	755.3	767.8

TEST NUMBER: P1034426

CATALOG NUMBER: S125DIW-B1270D1560UB2750-4F0-XX-W2A-D_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	759.3	778.0	821.7	843.7	851.5
115°	852.5	871.0	913.1	935.2	935.4
117.5°	950.2	958.0	1003.2	1020.5	1028.4
120°	1041.8	1045.0	1085.4	1109.0	1110.8
122.5°	1121.1	1130.4	1166.3	1188.2	1188.5
125°	1205.1	1214.3	1245.5	1264.4	1267.6
127.5°	1284.6	1290.6	1315.7	1336.0	1333.2
130°	1357.9	1363.9	1387.4	1404.7	1404.8
132.5°	1429.6	1438.8	1449.8	1471.7	1470.4
135°	1498.3	1506.0	1513.8	1531.1	1529.7
137.5°	1562.5	1570.2	1573.3	1592.1	1590.7
140°	1623.6	1626.7	1626.6	1646.9	1644.0
142.5°	1680.1	1680.0	1683.1	1697.2	1694.2
145°	1735.1	1736.6	1736.6	1745.9	1743.0
147.5°	1782.4	1782.4	1783.9	1788.5	1780.9
150°	1828.2	1825.1	1828.2	1831.2	1820.6
152.5°	1872.5	1864.8	1867.9	1871.0	1860.3
155°	1909.1	1900.0	1903.0	1907.6	1895.4
157.5°	1938.2	1933.6	1933.6	1938.2	1925.9
160°	1968.7	1959.5	1961.1	1967.2	1955.0
162.5°	1993.1	1984.0	1985.5	1994.7	1980.9
165°	2014.5	2005.4	2006.9	2016.1	2003.8
167.5°	2031.3	2022.2	2023.7	2034.4	2020.6
170°	2045.1	2034.4	2035.9	2048.1	2034.4
172.5°	2054.2	2043.5	2046.6	2057.3	2043.5
175°	2060.3	2051.2	2052.7	2064.9	2051.2
177.5°	2064.9	2055.8	2057.3	2068.0	2055.8
180°	2060.3	2060.3	2060.3	2060.3	2060.3

(END OF REPORT)