

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: P1035130

Luminaire Tested: S125DIW-B1270D1340UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035130
REPORT IS A COMBINATION OF REPORTS P1003157 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1340UB35-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

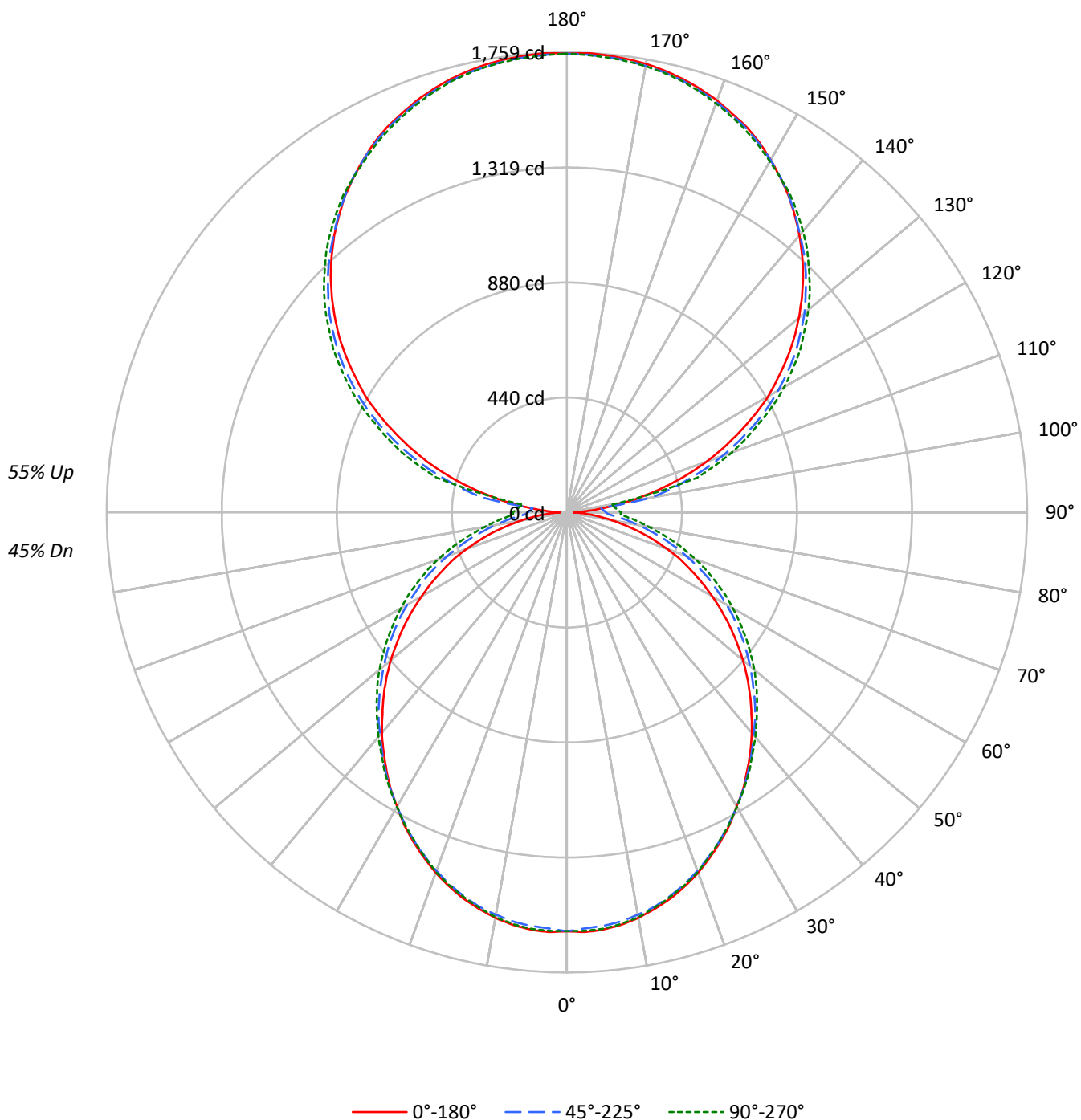
Lumens per Lamp: N/A
Luminaire Lumens: 10352.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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

TEST NUMBER: P1035130

CATALOG NUMBER: S125DIW-B1270D1340UB35-4F0-XX-W2A-D

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	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52			45
1	96	91	87	84	88	84	80	77	70	67	65	57	55	53	44	43	42			37
2	87	79	73	68	79	73	67	63	61	57	53	49	46	44	39	37	35			30
3	79	70	62	56	72	64	57	52	53	48	44	43	40	37	34	32	29			25
4	72	61	53	47	66	56	49	44	47	42	38	38	34	31	30	28	25			21
5	66	55	46	40	60	50	43	38	42	36	32	34	30	27	27	24	22			18
6	61	49	41	35	56	45	38	32	38	32	28	31	27	24	25	22	19			16
7	56	44	36	30	51	41	33	28	34	29	25	28	24	21	23	19	17			14
8	52	40	32	27	48	37	30	25	31	26	22	26	22	18	21	18	15			13
9	49	36	29	24	44	34	27	22	28	23	19	24	19	16	19	16	14			11
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12			10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10256	10256	10256
5°	10273	10042	10066
10°	10196	9837	9809
15°	10072	9599	9492
20°	9904	9311	9178
25°	9706	9004	8798
30°	9466	8671	8452
35°	9241	8362	8133
40°	9013	8038	7812
45°	8754	7757	7523
50°	8507	7452	7263
55°	8210	7161	6960
60°	7884	6830	6649
65°	7543	6479	6301
70°	7152	6011	5936
75°	6539	5549	5492
80°	5729	4988	5002
85°	4934	4538	4743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8754 cd/sqm

TEST NUMBER: P1035130

CATALOG NUMBER: S125DIW-B1270D1340UB35-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	1.5
10°-20°	430.0	4.2
20°-30°	639.5	6.2
30°-40°	757.3	7.3
40°-50°	782.9	7.6
50°-60°	721.2	7.0
60°-70°	583.0	5.6
70°-80°	390.1	3.8
80°-90°	204.2	2.0
90°-100°	173.1	1.7
100°-110°	479.8	4.6
110°-120°	769.3	7.4
120°-130°	947.2	9.1
130°-140°	998.5	9.6
140°-150°	926.8	9.0
150°-160°	747.5	7.2
160°-170°	483.4	4.7
170°-180°	166.7	1.6
0°-30°	1221.0	11.8
0°-40°	1978.3	19.1
0°-60°	3482.4	33.6
0°-90°	4659.8	45.0
90°-120°	1422.1	13.7
90°-150°	4294.5	41.5
90°-180°	5692.0	55.0
0°-180°	10352.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1601	1598	1587	1599	1598	152
15°	1529	1530	1519	1529	1522	431
25°	1389	1394	1384	1390	1383	639
35°	1202	1213	1208	1213	1213	753
45°	990	1008	1015	1026	1028	764
55°	761	786	811	829	835	680
65°	524	560	598	622	628	520
75°	289	330	380	411	419	306
85°	86	138	193	228	240	90
90°	26	87	150	192	207	21
95°	94	131	135	176	187	107
105°	396	427	474	505	515	420
115°	728	745	787	810	812	721
125°	1027	1035	1066	1086	1090	917
135°	1277	1283	1291	1309	1309	984
145°	1478	1479	1479	1488	1487	924
155°	1626	1618	1621	1625	1614	749
165°	1716	1708	1709	1717	1707	485
175°	1755	1747	1748	1759	1747	167
180°	1755	1755	1755	1755	1755	

TEST NUMBER: P1035130

CATALOG NUMBER: S125DIW-B1270D1340UB35-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1600.8	1600.8	1600.8	1600.8	1600.8
2.5°	1605.5	1602.4	1591.4	1602.4	1600.8
5°	1600.8	1597.7	1586.7	1599.2	1597.7
7.5°	1589.8	1588.2	1577.3	1588.2	1586.7
10°	1574.1	1574.1	1561.6	1572.6	1571.0
12.5°	1552.1	1553.7	1544.3	1552.1	1547.4
15°	1528.6	1530.2	1519.2	1528.6	1522.3
17.5°	1498.8	1501.9	1490.9	1498.8	1494.1
20°	1465.8	1469.0	1458.0	1462.7	1462.7
22.5°	1428.2	1434.4	1421.9	1428.2	1423.5
25°	1388.9	1393.6	1384.2	1390.5	1382.7
27.5°	1346.6	1352.8	1341.8	1346.6	1343.4
30°	1297.9	1307.3	1297.9	1301.0	1299.5
32.5°	1254.0	1261.8	1255.5	1258.7	1257.1
35°	1202.2	1213.2	1208.4	1213.2	1213.2
37.5°	1151.9	1161.4	1159.8	1166.1	1164.5
40°	1100.2	1112.7	1111.1	1117.4	1120.6
42.5°	1043.7	1060.9	1065.6	1073.5	1073.5
45°	990.3	1007.6	1015.4	1026.4	1028.0
47.5°	935.4	951.1	963.6	979.3	982.5
50°	878.9	896.1	913.4	930.7	935.4
52.5°	819.2	841.2	863.2	882.0	885.1
55°	761.2	786.3	811.4	828.6	834.9
57.5°	701.5	731.3	759.6	778.4	783.1
60°	641.9	673.3	704.7	728.2	732.9
62.5°	583.8	615.2	649.7	676.4	682.7
65°	524.2	560.3	597.9	621.5	627.8
67.5°	469.3	503.8	541.4	569.7	577.5
70°	408.0	444.1	484.9	514.8	524.2
72.5°	348.4	386.1	431.6	464.5	470.8
75°	288.8	329.6	379.8	411.2	419.0
77.5°	230.7	277.8	324.9	359.4	365.7
80°	177.3	224.4	277.8	312.3	318.6
82.5°	128.7	178.9	233.8	266.8	279.4
85°	86.3	138.1	193.0	227.6	240.1
87.5°	54.9	105.2	158.5	194.6	205.6
90°	26.4	87.0	149.5	192.1	207.0
92.5°	46.7	80.5	143.2	184.2	196.5
95°	94.5	131.4	135.4	176.4	187.4
97.5°	158.0	203.5	131.7	167.2	179.5
100°	234.5	271.3	326.7	165.9	170.1
102.5°	312.3	347.3	398.6	432.6	332.7
105°	396.5	426.8	473.9	505.3	515.0
107.5°	483.5	505.4	553.5	586.2	590.4
110°	567.8	586.6	633.2	659.1	671.4

TEST NUMBER: P1035130

CATALOG NUMBER: S125DIW-B1270D1340UB35-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	648.4	666.4	710.1	733.1	741.5
115°	727.5	745.0	787.1	810.2	811.7
117.5°	810.4	818.3	862.7	881.6	890.0
120°	888.5	892.0	932.0	956.0	958.9
122.5°	955.9	963.9	999.8	1022.3	1023.9
125°	1027.4	1035.0	1066.4	1086.2	1090.2
127.5°	1094.8	1099.7	1125.1	1146.1	1145.1
130°	1157.2	1162.1	1185.4	1203.5	1204.8
132.5°	1218.1	1225.9	1237.7	1259.7	1259.5
135°	1276.6	1282.9	1291.3	1309.1	1309.1
137.5°	1331.2	1337.5	1341.1	1360.0	1359.8
140°	1383.1	1385.7	1385.9	1405.8	1404.3
142.5°	1431.2	1430.9	1433.5	1447.6	1446.1
145°	1478.0	1479.0	1479.0	1488.1	1486.6
147.5°	1518.1	1518.1	1519.4	1523.8	1517.9
150°	1557.1	1554.5	1557.1	1559.7	1550.9
152.5°	1594.8	1588.3	1590.9	1593.5	1584.4
155°	1626.0	1618.2	1620.8	1624.7	1614.3
157.5°	1650.7	1646.8	1646.8	1650.7	1640.3
160°	1676.8	1669.0	1670.3	1675.5	1665.1
162.5°	1697.6	1689.8	1691.1	1698.9	1687.2
165°	1715.8	1708.0	1709.3	1717.1	1706.7
167.5°	1730.1	1722.3	1723.6	1732.7	1721.0
170°	1741.8	1732.7	1734.0	1744.4	1732.7
172.5°	1749.6	1740.5	1743.1	1752.2	1740.5
175°	1754.8	1747.0	1748.3	1758.7	1747.0
177.5°	1758.7	1750.9	1752.2	1761.3	1750.9
180°	1754.8	1754.8	1754.8	1754.8	1754.8

(END OF REPORT)