

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: P1034995

Luminaire Tested: S125DIW-B1090D1340UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034995
REPORT IS A COMBINATION OF REPORTS P1002849 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1340UB50-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

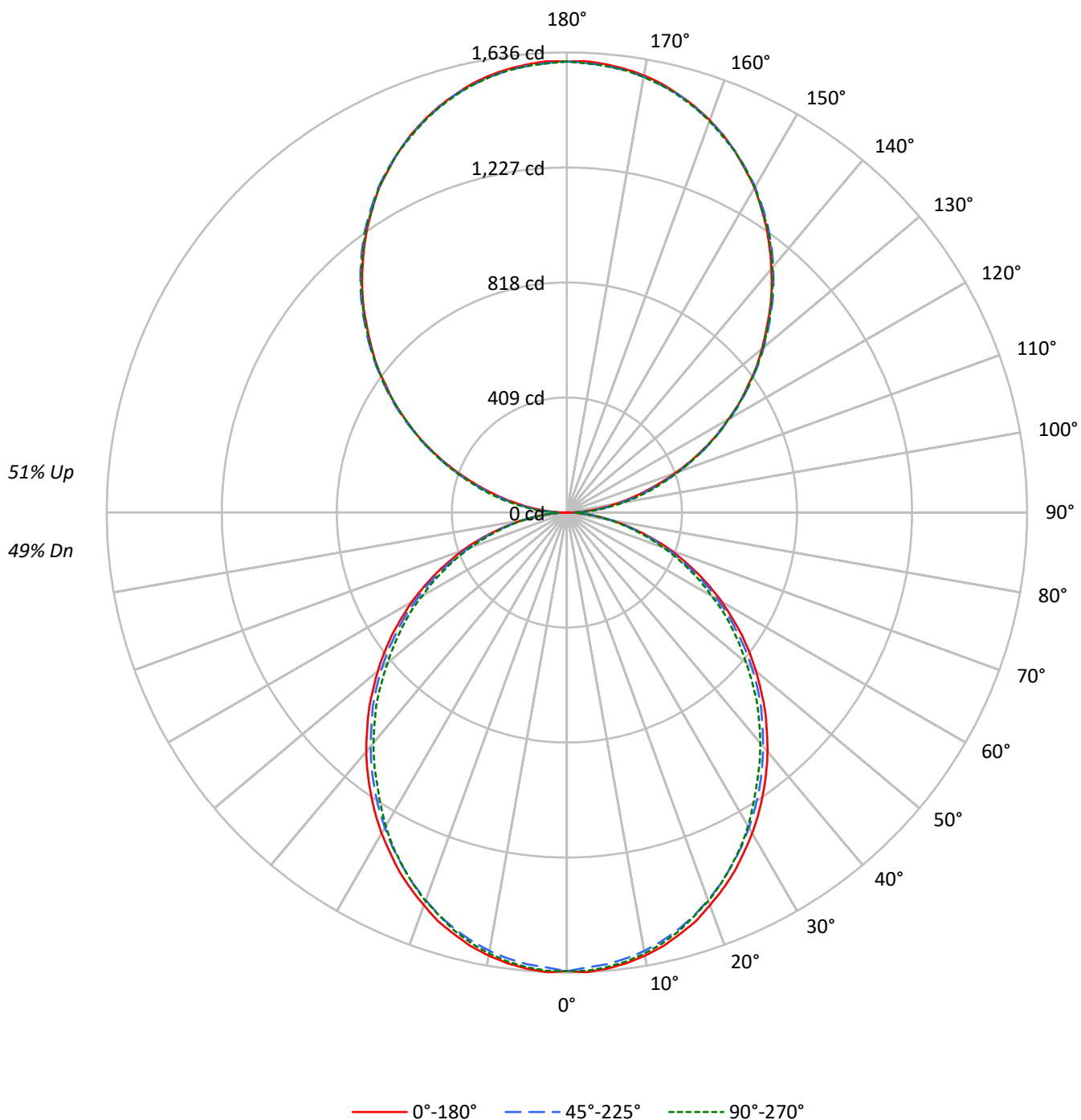
Lumens per Lamp: N/A
Luminaire Lumens: 8723.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 88.9
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: P1034995

CATALOG NUMBER: S125DIW-B1090D1340UB50-4F0-XX-W2A-F1

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49		
1	97	93	89	86	90	86	83	79	72	70	68	60	58	57	48	47	46	41		
2	89	81	75	70	81	75	70	65	63	59	56	53	50	47	43	41	39	34		
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	38	35	33	29		
4	74	63	55	49	68	58	51	46	50	44	40	41	37	34	34	31	28	25		
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	22		
6	63	50	42	36	57	47	40	34	40	34	30	34	29	26	28	24	22	19		
7	58	46	38	32	53	42	35	30	36	31	26	30	26	23	25	22	19	17		
8	54	41	34	28	49	38	31	27	33	27	24	28	24	20	23	20	17	15		
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14		
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10450	10450	10450
5°	10450	10207	10227
10°	10364	9973	9942
15°	10228	9693	9606
20°	10043	9369	9222
25°	9846	9015	8810
30°	9608	8646	8375
35°	9354	8259	7889
40°	9091	7851	7457
45°	8806	7453	6997
50°	8493	7001	6462
55°	8183	6503	5969
60°	7813	5978	5396
65°	7372	5370	4804
70°	6920	4671	4121
75°	6166	3846	3332
80°	5254	2873	2451
85°	4059	1700	1351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8806 cd/sqm

TEST NUMBER: P1034995

CATALOG NUMBER: S125DIW-B1090D1340UB50-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	1.8
10°-20°	434.7	5.0
20°-30°	641.8	7.4
30°-40°	748.8	8.6
40°-50°	752.0	8.6
50°-60°	660.2	7.6
60°-70°	491.7	5.6
70°-80°	280.8	3.2
80°-90°	83.6	1.0
90°-100°	106.6	1.2
100°-110°	316.8	3.6
110°-120°	537.3	6.2
120°-130°	707.3	8.1
130°-140°	792.6	9.1
140°-150°	776.9	8.9
150°-160°	652.5	7.5
160°-170°	433.8	5.0
170°-180°	151.8	1.7
0°-30°	1230.4	14.1
0°-40°	1979.2	22.7
0°-60°	3391.4	38.9
0°-90°	4247.5	48.7
90°-120°	960.7	11.0
90°-150°	3237.4	37.1
90°-180°	4475.0	51.3
0°-180°	8723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1628	1626	1613	1624	1623	155
15°	1552	1548	1534	1541	1541	438
25°	1409	1403	1386	1388	1384	648
35°	1217	1212	1194	1187	1177	761
45°	996	991	976	960	956	767
55°	759	755	737	725	716	677
65°	512	510	496	484	479	508
75°	272	270	263	259	254	290
85°	71	72	72	71	68	78
90°	1	11	20	26	30	10
95°	81	84	96	105	107	85
105°	284	291	298	306	310	303
115°	538	543	545	544	543	532
125°	785	792	794	791	790	703
135°	1021	1028	1030	1030	1025	787
145°	1237	1242	1245	1245	1242	773
155°	1415	1415	1416	1421	1415	652
165°	1539	1536	1538	1542	1535	434
175°	1600	1595	1595	1602	1594	152
180°	1604	1604	1604	1604	1604	

TEST NUMBER: P1034995

CATALOG NUMBER: S125DIW-B1090D1340UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.0	1631.0	1631.0	1631.0	1631.0
2.5°	1636.1	1632.3	1619.4	1632.3	1631.0
5°	1628.4	1625.8	1612.9	1624.5	1623.2
7.5°	1616.8	1614.2	1600.0	1611.6	1610.3
10°	1600.0	1597.4	1583.2	1593.5	1592.3
12.5°	1579.4	1574.2	1561.3	1569.0	1569.0
15°	1552.3	1548.4	1534.2	1540.6	1540.6
17.5°	1523.9	1517.4	1503.2	1511.0	1504.5
20°	1486.4	1483.9	1467.1	1476.1	1469.7
22.5°	1449.0	1443.9	1428.4	1433.5	1429.7
25°	1409.0	1402.6	1385.8	1388.4	1384.5
27.5°	1362.6	1358.7	1341.9	1343.2	1339.4
30°	1317.4	1313.5	1294.2	1291.6	1287.7
32.5°	1268.4	1261.9	1245.2	1240.0	1232.3
35°	1216.8	1211.6	1193.5	1187.1	1176.8
37.5°	1163.9	1157.4	1140.6	1131.6	1125.2
40°	1109.7	1103.2	1085.2	1073.5	1069.7
42.5°	1051.6	1046.4	1028.4	1018.1	1011.6
45°	996.1	991.0	975.5	960.0	956.1
47.5°	935.5	936.8	917.4	901.9	892.9
50°	877.4	873.5	858.1	841.3	832.3
52.5°	818.1	815.5	798.7	784.5	774.2
55°	758.7	754.8	736.8	725.2	716.1
57.5°	695.5	694.2	678.7	663.2	659.4
60°	636.1	631.0	616.8	603.9	594.8
62.5°	574.2	570.3	558.7	544.5	538.1
65°	512.3	509.7	495.5	483.9	478.7
67.5°	451.6	446.5	436.1	425.8	423.2
70°	394.8	388.4	376.8	369.0	363.9
72.5°	332.9	329.0	322.6	313.5	308.4
75°	272.3	269.7	263.2	259.4	254.2
77.5°	215.5	214.2	210.3	207.7	203.9
80°	162.6	162.6	160.0	158.7	156.1
82.5°	116.1	113.5	113.5	111.0	111.0
85°	71.0	72.3	72.3	71.0	68.4
87.5°	34.8	34.8	33.5	33.5	31.0
90°	1.2	11.2	20.0	26.2	30.0
92.5°	37.4	43.7	54.9	63.6	66.1
95°	81.1	83.6	96.1	104.8	107.3
97.5°	124.8	126.0	143.5	151.0	152.2
100°	174.7	174.7	190.9	202.2	204.7
102.5°	228.4	234.6	240.9	253.3	257.1
105°	284.5	290.8	298.3	305.7	309.5
107.5°	345.7	351.9	358.2	361.9	361.9
110°	409.3	415.6	419.3	423.0	421.8

TEST NUMBER: P1034995

CATALOG NUMBER: S125DIW-B1090D1340UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	474.2	476.7	481.7	483.0	480.5
115°	537.9	542.9	545.3	544.1	542.9
117.5°	602.8	604.0	606.5	607.7	602.8
120°	662.7	668.9	670.1	670.1	665.1
122.5°	727.5	728.8	732.5	731.3	727.5
125°	785.0	792.4	793.7	791.2	789.9
127.5°	848.6	852.3	853.6	852.3	849.8
130°	904.8	911.0	913.5	912.2	909.7
132.5°	960.9	972.1	970.9	969.6	965.9
135°	1020.8	1028.3	1029.5	1029.5	1024.6
137.5°	1077.0	1084.5	1087.0	1088.2	1082.0
140°	1130.6	1136.9	1140.6	1143.1	1136.9
142.5°	1184.3	1189.3	1194.3	1195.5	1189.3
145°	1236.7	1241.7	1245.4	1245.4	1241.7
147.5°	1285.4	1289.1	1291.6	1295.4	1285.4
150°	1334.0	1332.8	1337.8	1337.8	1335.3
152.5°	1374.0	1376.5	1377.7	1381.5	1376.5
155°	1415.2	1415.2	1416.4	1421.4	1415.2
157.5°	1452.6	1450.1	1451.3	1456.3	1447.6
160°	1485.0	1481.3	1482.5	1487.5	1481.3
162.5°	1513.7	1511.2	1511.2	1517.5	1510.0
165°	1538.7	1536.2	1537.5	1542.4	1535.0
167.5°	1561.2	1556.2	1556.2	1563.7	1556.2
170°	1578.6	1573.6	1573.6	1581.1	1572.4
172.5°	1591.1	1586.1	1586.1	1593.6	1586.1
175°	1599.9	1594.9	1594.9	1602.3	1593.6
177.5°	1606.1	1601.1	1599.9	1607.3	1598.6
180°	1603.6	1603.6	1603.6	1603.6	1603.6

(END OF REPORT)