

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: P1034980

Luminaire Tested: S125DIW-B1090D1340UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034980
REPORT IS A COMBINATION OF REPORTS P1002822 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1340UB30-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

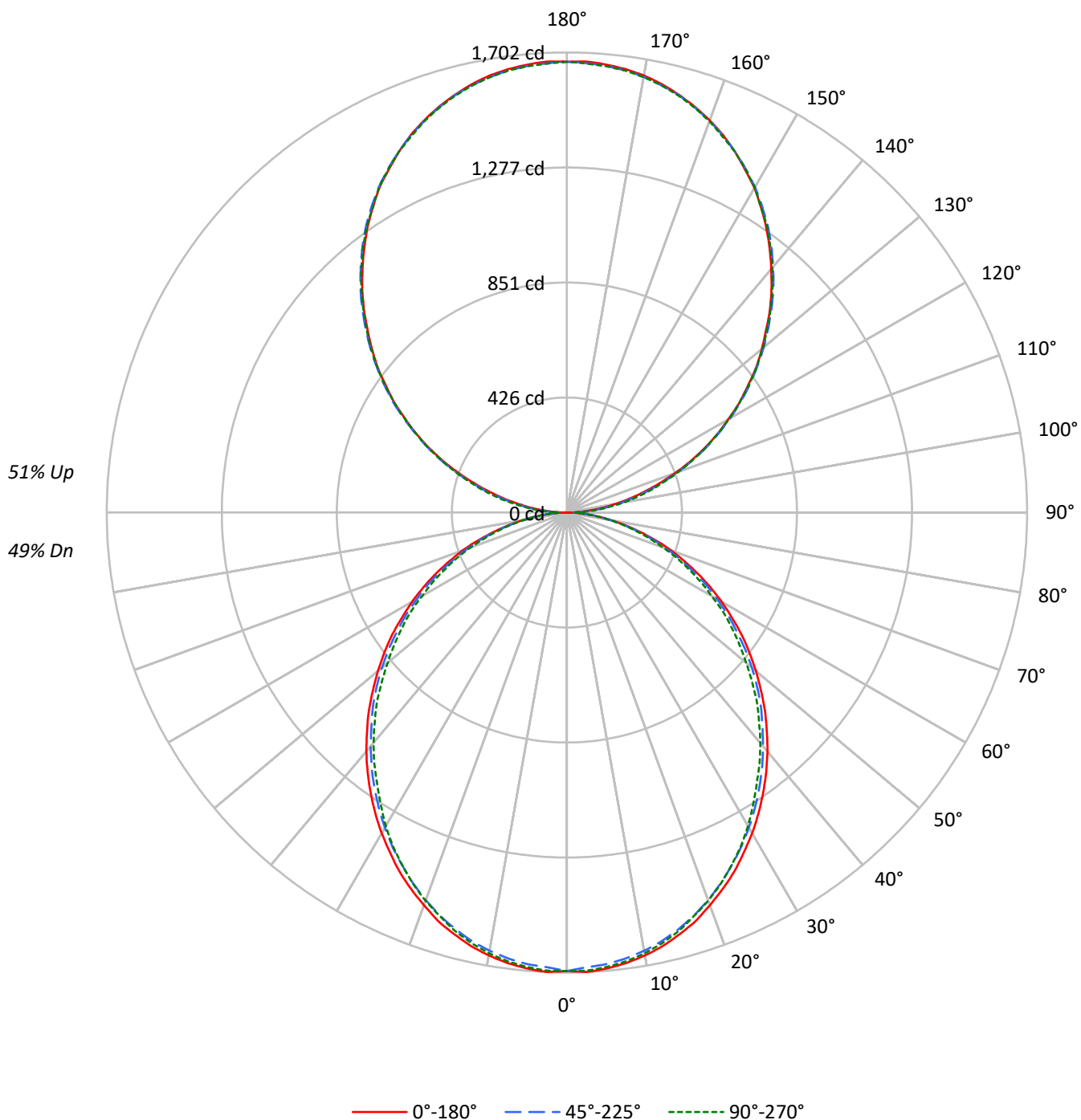
Lumens per Lamp: N/A
Luminaire Lumens: 9072.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	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°	10868	10868	10868
5°	10869	10616	10636
10°	10779	10372	10340
15°	10637	10081	9991
20°	10446	9744	9591
25°	10241	9376	9163
30°	9993	8992	8711
35°	9728	8590	8205
40°	9454	8165	7755
45°	9158	7751	7278
50°	8833	7281	6721
55°	8511	6763	6209
60°	8126	6217	5613
65°	7666	5584	4997
70°	7199	4858	4285
75°	6412	4000	3466
80°	5465	2988	2549
85°	4220	1768	1405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9158 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	1.8
10°-20°	452.1	5.0
20°-30°	667.5	7.4
30°-40°	778.8	8.6
40°-50°	782.2	8.6
50°-60°	686.6	7.6
60°-70°	511.4	5.6
70°-80°	292.1	3.2
80°-90°	86.9	1.0
90°-100°	110.9	1.2
100°-110°	329.5	3.6
110°-120°	558.7	6.2
120°-130°	735.5	8.1
130°-140°	824.2	9.1
140°-150°	807.9	8.9
150°-160°	678.6	7.5
160°-170°	451.1	5.0
170°-180°	157.9	1.7
0°-30°	1279.7	14.1
0°-40°	2058.4	22.7
0°-60°	3527.2	38.9
0°-90°	4417.6	48.7
90°-120°	999.1	11.0
90°-150°	3366.8	37.1
90°-180°	4654.0	51.3
0°-180°	9072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1694	1691	1678	1690	1688	161
15°	1614	1610	1596	1602	1602	455
25°	1466	1459	1441	1444	1440	674
35°	1266	1260	1241	1235	1224	792
45°	1036	1031	1014	998	994	798
55°	789	785	766	754	745	704
65°	533	530	515	503	498	528
75°	283	280	274	270	264	301
85°	74	75	75	74	71	81
90°	1	12	21	27	31	11
95°	84	87	100	109	112	88
105°	296	302	310	318	322	316
115°	559	565	567	566	565	553
125°	816	824	825	823	822	731
135°	1062	1069	1071	1071	1066	818
145°	1286	1291	1295	1295	1291	804
155°	1472	1472	1473	1478	1472	678
165°	1600	1598	1599	1604	1596	452
175°	1664	1659	1659	1666	1657	158
180°	1668	1668	1668	1668	1668	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.3	1696.3	1696.3	1696.3	1696.3
2.5°	1701.6	1697.6	1684.2	1697.6	1696.3
5°	1693.6	1690.9	1677.5	1689.6	1688.2
7.5°	1681.5	1678.8	1664.1	1676.2	1674.8
10°	1664.1	1661.4	1646.6	1657.4	1656.0
12.5°	1642.6	1637.2	1623.8	1631.9	1631.9
15°	1614.4	1610.4	1595.6	1602.3	1602.3
17.5°	1584.9	1578.2	1563.4	1571.5	1564.8
20°	1546.0	1543.3	1525.8	1535.2	1528.5
22.5°	1507.1	1501.7	1485.6	1491.0	1486.9
25°	1465.5	1458.7	1441.3	1444.0	1440.0
27.5°	1417.1	1413.1	1395.7	1397.0	1393.0
30°	1370.2	1366.1	1346.0	1343.3	1339.3
32.5°	1319.2	1312.5	1295.0	1289.7	1281.6
35°	1265.5	1260.1	1241.3	1234.6	1223.9
37.5°	1210.5	1203.8	1186.3	1176.9	1170.2
40°	1154.1	1147.4	1128.6	1116.5	1112.5
42.5°	1093.7	1088.4	1069.6	1058.8	1052.1
45°	1036.0	1030.7	1014.5	998.4	994.4
47.5°	972.9	974.3	954.2	938.1	928.7
50°	912.6	908.5	892.4	875.0	865.6
52.5°	850.8	848.1	830.7	815.9	805.2
55°	789.1	785.1	766.3	754.2	744.8
57.5°	723.3	722.0	705.9	689.8	685.8
60°	661.6	656.2	641.5	628.1	618.7
62.5°	597.2	593.2	581.1	566.3	559.6
65°	532.8	530.1	515.3	503.2	497.9
67.5°	469.7	464.3	453.6	442.9	440.2
70°	410.7	403.9	391.9	383.8	378.4
72.5°	346.2	342.2	335.5	326.1	320.7
75°	283.2	280.5	273.8	269.7	264.4
77.5°	224.1	222.8	218.7	216.1	212.0
80°	169.1	169.1	166.4	165.1	162.4
82.5°	120.8	118.1	118.1	115.4	115.4
85°	73.8	75.2	75.2	73.8	71.1
87.5°	36.2	36.2	34.9	34.9	32.2
90°	1.3	11.7	20.8	27.3	31.1
92.5°	38.9	45.4	57.1	66.2	68.8
95°	84.4	87.0	99.9	109.0	111.6
97.5°	129.8	131.1	149.2	157.0	158.3
100°	181.7	181.7	198.6	210.2	212.8
102.5°	237.5	244.0	250.5	263.5	267.4
105°	295.9	302.4	310.2	318.0	321.9
107.5°	359.5	366.0	372.5	376.4	376.4
110°	425.7	432.2	436.1	440.0	438.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	493.2	495.8	501.0	502.3	499.7
115°	559.4	564.6	567.1	565.8	564.6
117.5°	626.8	628.1	630.7	632.0	626.8
120°	689.1	695.6	696.9	696.9	691.7
122.5°	756.6	757.9	761.8	760.5	756.6
125°	816.3	824.1	825.4	822.8	821.5
127.5°	882.5	886.4	887.7	886.4	883.8
130°	940.9	947.4	950.0	948.7	946.1
132.5°	999.3	1011.0	1009.7	1008.4	1004.5
135°	1061.6	1069.4	1070.7	1070.7	1065.5
137.5°	1120.0	1127.8	1130.4	1131.7	1125.2
140°	1175.8	1182.3	1186.2	1188.8	1182.3
142.5°	1231.6	1236.8	1242.0	1243.3	1236.8
145°	1286.1	1291.3	1295.2	1295.2	1291.3
147.5°	1336.8	1340.6	1343.2	1347.1	1336.8
150°	1387.4	1386.1	1391.3	1391.3	1388.7
152.5°	1428.9	1431.5	1432.8	1436.7	1431.5
155°	1471.7	1471.7	1473.0	1478.2	1471.7
157.5°	1510.7	1508.1	1509.4	1514.6	1505.5
160°	1544.4	1540.5	1541.8	1547.0	1540.5
162.5°	1574.3	1571.7	1571.7	1578.1	1570.4
165°	1600.2	1597.6	1598.9	1604.1	1596.3
167.5°	1623.6	1618.4	1618.4	1626.2	1618.4
170°	1641.7	1636.5	1636.5	1644.3	1635.3
172.5°	1654.7	1649.5	1649.5	1657.3	1649.5
175°	1663.8	1658.6	1658.6	1666.4	1657.3
177.5°	1670.3	1665.1	1663.8	1671.6	1662.5
180°	1667.7	1667.7	1667.7	1667.7	1667.7

(END OF REPORT)