

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: P1034322

Luminaire Tested: S125DIW-B1090D1050UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034322
REPORT IS A COMBINATION OF REPORTS P1002739 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1050UB2750-4F0-XX-W2A-D_3500K
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

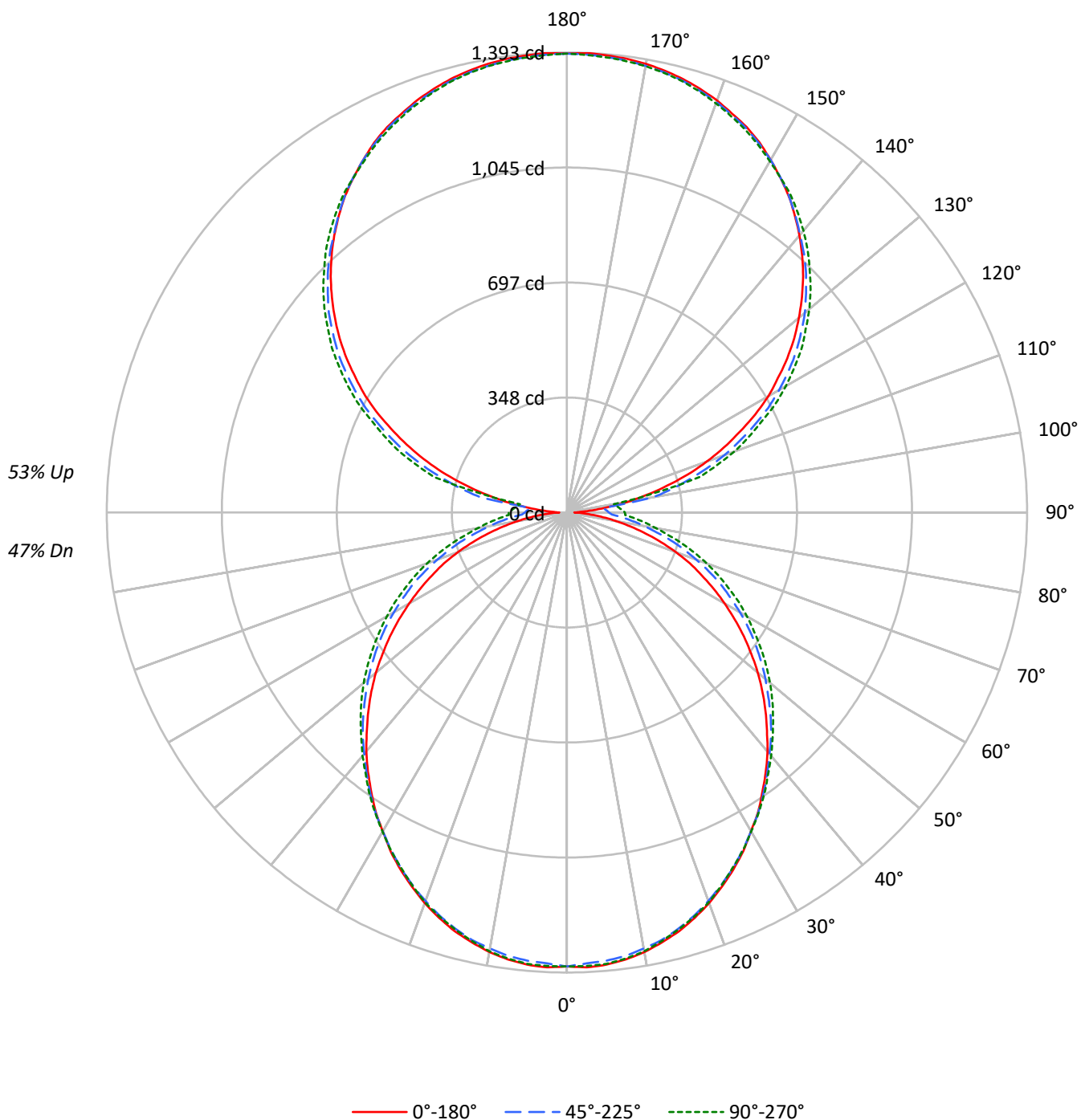
Lumens per Lamp: N/A
Luminaire Lumens: 8529.0 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 78.3
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: P1034322

CATALOG NUMBER: S125DIW-B1090D1050UB2750-4F0-XX-W2A-D_3500K

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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47		
1	96	92	88	84	88	84	81	78	70	68	66	58	56	54	46	45	44	38		
2	87	80	73	68	80	73	68	63	61	57	54	50	47	45	40	38	36	31		
3	80	70	62	56	73	64	58	52	54	49	45	44	41	38	35	33	30	26		
4	73	62	54	47	66	57	50	44	48	42	38	39	35	32	31	28	26	22		
5	67	55	47	40	61	51	43	38	43	37	33	35	31	28	28	25	23	19		
6	61	49	41	35	56	45	38	33	38	33	28	32	27	24	26	22	20	17		
7	57	44	36	31	52	41	34	29	35	29	25	29	24	21	23	20	18	15		
8	53	40	32	27	48	37	30	25	32	26	22	26	22	19	21	18	16	13		
9	49	37	29	24	45	34	27	22	29	23	20	24	20	17	20	16	14	12		
10	46	33	26	21	42	31	25	20	27	21	18	22	18	15	18	15	13	11		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8807	8807	8807
5°	8821	8622	8643
10°	8755	8446	8422
15°	8648	8241	8150
20°	8504	7994	7880
25°	8334	7731	7554
30°	8127	7445	7257
35°	7935	7180	6984
40°	7738	6902	6708
45°	7517	6661	6460
50°	7304	6399	6236
55°	7049	6149	5976
60°	6770	5864	5709
65°	6477	5564	5409
70°	6142	5162	5097
75°	5615	4765	4716
80°	4922	4282	4295
85°	4237	3899	4073

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7517 cd/sqm

TEST NUMBER: P1034322

CATALOG NUMBER: S125DIW-B1090D1050UB2750-4F0-XX-W2A-D_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	1.5
10°-20°	369.2	4.3
20°-30°	549.1	6.4
30°-40°	650.3	7.6
40°-50°	672.3	7.9
50°-60°	619.3	7.3
60°-70°	500.6	5.9
70°-80°	335.0	3.9
80°-90°	175.2	2.1
90°-100°	144.7	1.7
100°-110°	385.5	4.5
110°-120°	612.9	7.2
120°-130°	752.2	8.8
130°-140°	791.6	9.3
140°-150°	734.2	8.6
150°-160°	592.0	6.9
160°-170°	382.8	4.5
170°-180°	132.0	1.5
0°-30°	1048.4	12.3
0°-40°	1698.6	19.9
0°-60°	2990.2	35.1
0°-90°	4001.0	46.9
90°-120°	1143.1	13.4
90°-150°	3421.2	40.1
90°-180°	4528.0	53.1
0°-180°	8529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1374	1372	1362	1373	1372	130
15°	1312	1314	1304	1312	1307	370
25°	1193	1197	1188	1194	1187	549
35°	1032	1042	1038	1042	1042	646
45°	850	865	872	881	883	656
55°	654	675	697	712	717	584
65°	450	481	513	534	539	447
75°	248	283	326	353	360	263
85°	74	119	166	195	206	77
90°	23	74	127	163	176	18
95°	76	108	115	150	159	86
105°	315	341	381	408	416	334
115°	577	591	627	648	649	572
125°	814	820	847	864	868	727
135°	1011	1016	1024	1039	1039	780
145°	1171	1171	1171	1179	1178	732
155°	1288	1282	1284	1287	1278	593
165°	1359	1353	1354	1360	1352	384
175°	1390	1384	1385	1393	1384	132
180°	1390	1390	1390	1390	1390	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.5	1374.5	1374.5	1374.5	1374.5
2.5°	1378.6	1375.9	1366.4	1375.9	1374.5
5°	1374.5	1371.8	1362.4	1373.2	1371.8
7.5°	1365.1	1363.7	1354.3	1363.7	1362.4
10°	1351.6	1351.6	1340.8	1350.3	1348.9
12.5°	1332.7	1334.1	1326.0	1332.7	1328.7
15°	1312.5	1313.9	1304.4	1312.5	1307.1
17.5°	1286.9	1289.6	1280.2	1286.9	1282.9
20°	1258.6	1261.3	1251.9	1255.9	1255.9
22.5°	1226.3	1231.7	1220.9	1226.3	1222.2
25°	1192.6	1196.6	1188.5	1193.9	1187.2
27.5°	1156.2	1161.6	1152.2	1156.2	1153.5
30°	1114.4	1122.5	1114.4	1117.1	1115.8
32.5°	1076.7	1083.4	1078.0	1080.7	1079.4
35°	1032.2	1041.7	1037.6	1041.7	1041.7
37.5°	989.1	997.2	995.8	1001.2	999.9
40°	944.6	955.4	954.1	959.5	962.2
42.5°	896.1	911.0	915.0	921.7	921.7
45°	850.3	865.1	871.9	881.3	882.7
47.5°	803.1	816.6	827.4	840.9	843.6
50°	754.6	769.5	784.3	799.1	803.1
52.5°	703.4	722.3	741.2	757.3	760.0
55°	653.6	675.1	696.7	711.5	716.9
57.5°	602.4	628.0	652.2	668.4	672.4
60°	551.2	578.1	605.1	625.3	629.3
62.5°	501.3	528.2	557.9	580.8	586.2
65°	450.1	481.1	513.4	533.6	539.0
67.5°	402.9	432.6	464.9	489.2	495.9
70°	350.4	381.4	416.4	442.0	450.1
72.5°	299.2	331.5	370.6	398.9	404.3
75°	248.0	283.0	326.1	353.1	359.8
77.5°	198.1	238.5	278.9	308.6	314.0
80°	152.3	192.7	238.5	268.2	273.6
82.5°	110.5	153.6	200.8	229.1	239.9
85°	74.1	118.6	165.8	195.4	206.2
87.5°	47.2	90.3	136.1	167.1	176.5
90°	22.6	74.0	127.0	163.1	175.6
92.5°	38.5	68.2	121.6	156.4	166.9
95°	76.2	108.2	114.9	149.6	159.1
97.5°	126.4	164.9	111.5	141.9	152.3
100°	186.8	218.2	265.5	140.3	144.2
102.5°	248.4	278.1	322.0	350.9	272.5
105°	315.0	340.7	381.1	408.1	416.5
107.5°	383.7	402.5	443.7	471.7	475.7
110°	450.3	466.5	506.3	528.8	539.3

TEST NUMBER: P1034322

CATALOG NUMBER: S125DIW-B1090D1050UB2750-4F0-XX-W2A-D_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	514.2	529.5	566.8	587.0	594.3
115°	576.8	591.3	627.4	647.5	649.4
117.5°	642.3	649.1	686.9	703.7	711.0
120°	704.1	707.2	741.3	762.1	765.1
122.5°	757.4	763.9	794.6	814.1	816.0
125°	814.1	819.9	846.9	864.4	868.0
127.5°	867.3	871.1	893.0	911.2	911.0
130°	916.7	920.6	940.5	956.2	957.9
132.5°	964.9	971.1	981.5	1000.3	1000.5
135°	1011.3	1016.0	1023.5	1038.9	1039.4
137.5°	1054.5	1059.3	1062.6	1078.8	1079.1
140°	1095.4	1097.4	1097.8	1114.7	1113.9
142.5°	1133.5	1133.2	1135.3	1147.4	1146.6
145°	1170.6	1171.3	1171.3	1179.1	1178.3
147.5°	1202.2	1202.2	1203.3	1207.0	1202.5
150°	1233.1	1231.1	1233.1	1235.2	1228.3
152.5°	1263.0	1257.9	1259.9	1262.0	1254.8
155°	1287.7	1281.6	1283.6	1286.7	1278.5
157.5°	1307.3	1304.2	1304.2	1307.3	1299.1
160°	1327.9	1321.7	1322.8	1326.9	1318.6
162.5°	1344.4	1338.2	1339.2	1345.4	1336.2
165°	1358.8	1352.6	1353.7	1359.8	1351.6
167.5°	1370.2	1364.0	1365.0	1372.2	1362.9
170°	1379.4	1372.2	1373.2	1381.5	1372.2
172.5°	1385.6	1378.4	1380.5	1387.7	1378.4
175°	1389.7	1383.5	1384.6	1392.8	1383.5
177.5°	1392.8	1386.6	1387.7	1394.9	1386.6
180°	1389.7	1389.7	1389.7	1389.7	1389.7

(END OF REPORT)