

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061594

Luminaire Tested: S125RDRP-S1270D950-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D950-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

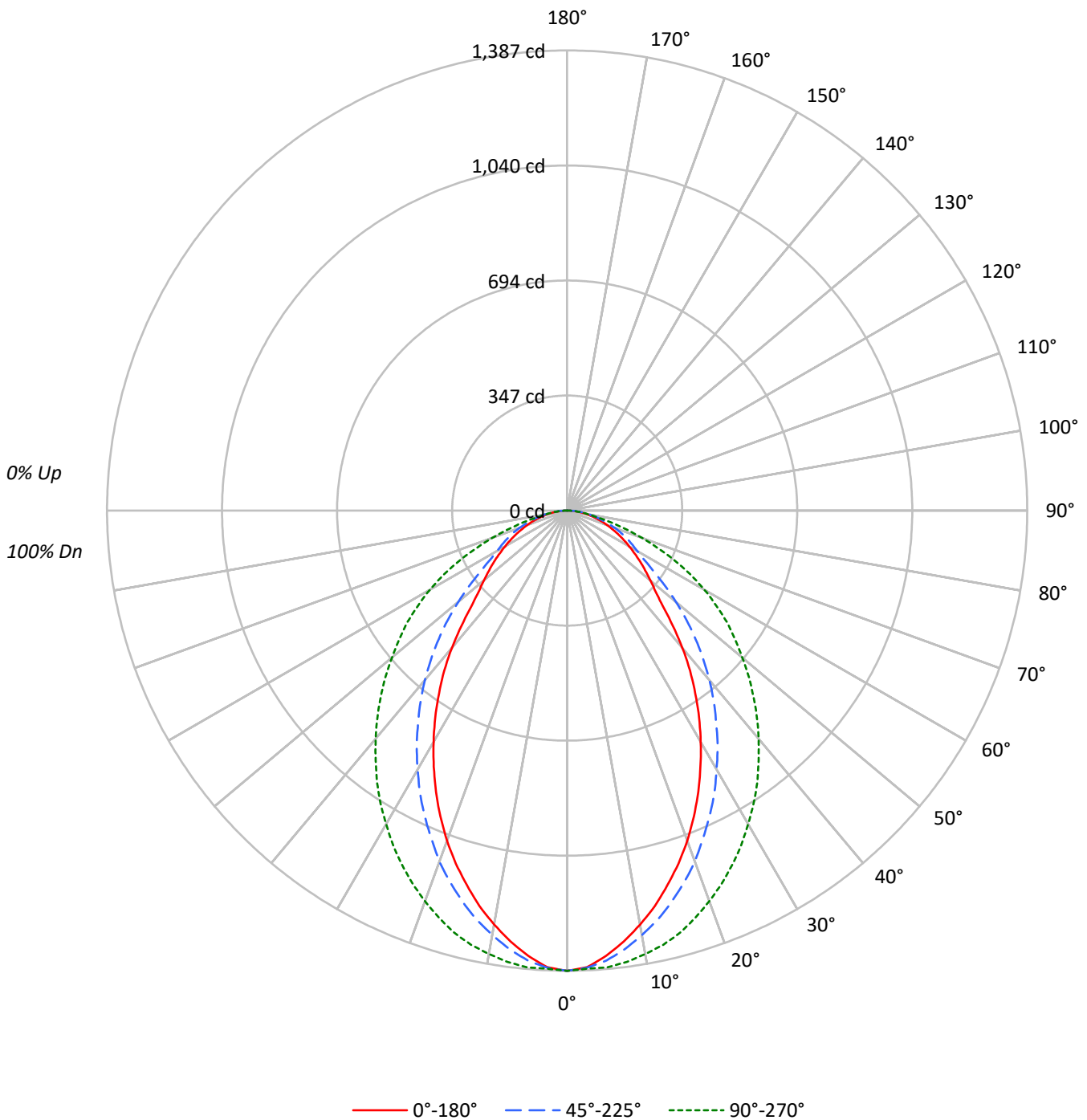
Lumens per Lamp: N/A
Luminaire Lumens: 2600.9 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
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: P1061594

CATALOG NUMBER: S125RDRP-S1270D950-X4F0-XX-UDD-WVL-S

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9553	9553	9553
5°	9311	9407	9551
10°	8857	9080	9487
15°	8329	8694	9386
20°	7759	8247	9181
25°	7108	7719	8950
30°	6402	7163	8672
35°	5662	6582	8399
40°	4858	5992	8072
45°	3968	5331	7733
50°	3519	4573	7379
55°	3228	3793	7072
60°	2977	3359	6585
65°	2778	3229	5872
70°	2595	3070	4799
75°	2397	2876	3541
80°	2252	2692	2581
85°	2078	2631	2188

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7733 cd/sqm



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CATALOG NUMBER: S125RDRP-S1270D950-X4F0-XX-UDD-WVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	4.9
10°-20°	345.9	13.3
20°-30°	475.3	18.3
30°-40°	503.7	19.4
40°-50°	439.7	16.9
50°-60°	334.1	12.8
60°-70°	223.8	8.6
70°-80°	115.4	4.4
80°-90°	34.6	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	949.6	36.5
0°-40°	1453.3	55.9
0°-60°	2227.1	85.6
0°-90°	2600.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2600.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1387	1387	1387	1387	1387	
5°	1347	1361	1361	1371	1382	126
15°	1168	1191	1220	1274	1317	328
25°	936	965	1016	1100	1178	429
35°	674	712	783	894	999	420
45°	408	448	548	678	794	322
55°	269	277	316	464	589	241
65°	170	175	198	265	360	169
75°	90	96	108	115	133	97
85°	26	33	33	30	28	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.4	1387.4	1387.4	1387.4	1387.4
2.5°	1377.7	1387.4	1379.1	1379.1	1381.9
5°	1347.2	1361.1	1361.1	1370.8	1381.9
7.5°	1309.8	1325.0	1333.4	1355.5	1372.2
10°	1266.8	1283.5	1298.7	1332.0	1356.9
12.5°	1221.1	1239.1	1262.7	1305.6	1340.3
15°	1168.4	1190.6	1219.7	1273.8	1316.7
17.5°	1115.7	1137.9	1174.0	1237.7	1286.2
20°	1058.9	1082.5	1125.5	1194.8	1253.0
22.5°	997.9	1024.3	1070.0	1149.0	1216.9
25°	935.6	964.7	1016.0	1100.5	1178.1
27.5°	870.4	905.1	960.5	1050.6	1136.5
30°	805.3	839.9	900.9	999.3	1090.8
32.5°	740.1	777.6	844.1	948.0	1046.4
35°	673.6	712.4	783.1	894.0	999.3
37.5°	608.5	647.3	726.3	841.3	948.0
40°	540.5	580.7	666.7	787.3	898.1
42.5°	471.2	514.2	607.1	731.8	846.9
45°	407.5	447.7	547.5	677.8	794.2
47.5°	360.4	386.7	487.9	622.3	742.9
50°	328.5	342.3	426.9	568.3	688.9
52.5°	296.6	307.7	370.1	512.8	637.6
55°	268.9	277.2	316.0	464.3	589.1
57.5°	241.2	249.5	274.4	415.8	532.2
60°	216.2	223.1	243.9	364.5	478.2
62.5°	192.7	198.2	220.4	316.0	420.0
65°	170.5	174.6	198.2	264.7	360.4
67.5°	148.3	152.5	176.0	216.2	296.6
70°	128.9	130.3	152.5	176.0	238.4
72.5°	109.5	110.9	128.9	142.8	183.0
75°	90.1	95.6	108.1	115.0	133.1
77.5°	73.5	80.4	87.3	90.1	90.1
80°	56.8	65.1	67.9	67.9	65.1
82.5°	41.6	48.5	49.9	47.1	44.4
85°	26.3	33.3	33.3	30.5	27.7
87.5°	12.5	18.0	18.0	16.6	12.5
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.45	15.94	14.81	16.26	16.57	18.38	19.87	18.74	20.19	20.50
	3H	16.02	17.36	16.40	17.69	18.05	19.80	21.14	20.18	21.47	21.83
	4H	16.63	17.89	17.03	18.24	18.62	20.21	21.47	20.61	21.82	22.20
	6H	17.13	18.29	17.54	18.66	19.05	20.43	21.59	20.84	21.96	22.35
	8H	17.30	18.41	17.73	18.80	19.20	20.49	21.59	20.91	21.98	22.39
	12H	17.42	18.48	17.86	18.87	19.30	20.52	21.58	20.95	21.96	22.39
4H	2H	15.19	16.44	15.59	16.79	17.17	18.50	19.76	18.90	20.11	20.49
	3H	16.96	18.01	17.37	18.41	18.81	20.11	21.16	20.52	21.56	21.96
	4H	17.70	18.64	18.13	19.06	19.50	20.64	21.58	21.07	21.99	22.43
	6H	18.34	19.15	18.79	19.60	20.06	20.98	21.80	21.44	22.24	22.70
	8H	18.56	19.33	19.03	19.77	20.24	21.08	21.84	21.54	22.29	22.76
	12H	18.74	19.42	19.22	19.90	20.37	21.15	21.84	21.64	22.31	22.79
8H	4H	18.10	18.86	18.56	19.31	19.78	20.74	21.51	21.21	21.95	22.42
	6H	18.89	19.52	19.38	20.01	20.49	21.18	21.82	21.68	22.31	22.78
	8H	19.21	19.78	19.72	20.29	20.78	21.34	21.91	21.86	22.42	22.91
	12H	19.48	19.99	19.99	20.48	21.04	21.48	21.98	21.99	22.47	23.04
12H	4H	18.14	18.83	18.63	19.31	19.78	20.74	21.43	21.23	21.91	22.38
	6H	18.97	19.54	19.48	20.05	20.54	21.20	21.77	21.71	22.28	22.77
	8H	19.36	19.87	19.87	20.36	20.92	21.41	21.91	21.92	22.40	22.97