

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: P1175396

Luminaire Tested: S125RDRP-H1090D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H1090D927-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

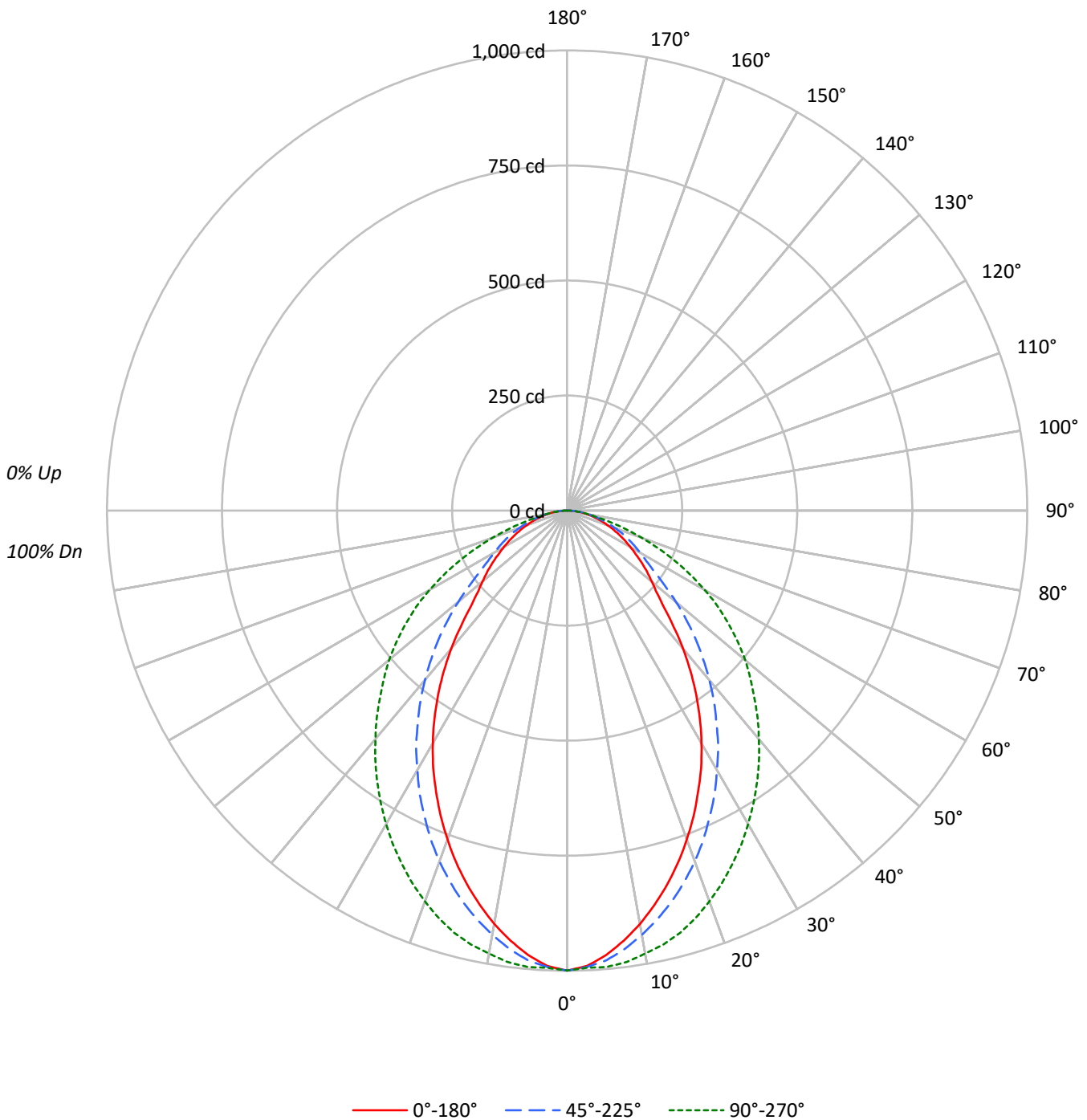
Lumens per Lamp: N/A
Luminaire Lumens: 1883.2 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (A_{in}): 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: P1175396

CATALOG NUMBER: S125RDRP-H1090D927-X4F0-XX-UDD-WVL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1175396

CATALOG NUMBER: S125RDRP-H1090D927-X4F0-XX-UDD-WVL-W

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																		
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86																												
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74																												
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64																												
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56																												
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50																												
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44																												
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40																												
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36																												
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33																												
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6882	6882	6882
5°	6704	6780	6880
10°	6378	6544	6834
15°	5994	6266	6768
20°	5571	5944	6622
25°	5119	5570	6447
30°	4641	5174	6254
35°	4109	4757	6048
40°	3523	4324	5827
45°	2892	3850	5602
50°	2572	3309	5408
55°	2373	2771	5134
60°	2185	2524	4756
65°	2032	2379	4203
70°	1896	2220	3434
75°	1782	2054	2572
80°	1681	1883	1852
85°	1540	1880	1540

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5602 cd/sqm



TEST NUMBER: P1175396

CATALOG NUMBER: S125RDRP-H1090D927-X4F0-XX-UDD-WVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	4.9
10°-20°	249.4	13.2
20°-30°	343.2	18.2
30°-40°	364.0	19.3
40°-50°	318.6	16.9
50°-60°	244.4	13.0
60°-70°	162.8	8.6
70°-80°	83.5	4.4
80°-90°	24.8	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°	685.1	36.4
0°-40°	1049.1	55.7
0°-60°	1612.1	85.6
0°-90°	1883.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1883.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	970	983	981	988	995	91
15°	841	860	879	921	950	236
25°	674	697	733	795	849	309
35°	489	512	566	649	720	305
45°	297	322	395	494	575	235
55°	198	202	231	343	428	177
65°	125	126	146	192	258	124
75°	67	71	77	82	97	71
85°	20	22	24	23	20	22
90°	0	0	0	0	0	



TEST NUMBER: P1175396

CATALOG NUMBER: S125RDRP-H1090D927-X4F0-XX-UDD-WVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.6	999.6	999.6	999.6	999.6
2.5°	990.3	1000.5	992.8	993.7	994.5
5°	969.9	982.6	980.9	987.7	995.4
7.5°	942.7	956.3	960.6	977.5	989.4
10°	912.2	927.5	936.0	961.4	977.5
12.5°	877.4	895.2	908.8	941.9	965.7
15°	840.9	860.4	879.1	920.7	949.5
17.5°	801.9	821.4	846.0	893.5	928.3
20°	760.3	781.5	811.2	862.1	903.7
22.5°	717.9	739.9	773.9	829.9	877.4
25°	673.8	696.7	733.2	795.1	848.6
27.5°	630.5	651.7	694.1	760.3	818.9
30°	583.8	605.9	650.8	723.8	786.6
32.5°	537.1	559.2	611.0	687.3	753.5
35°	488.8	511.7	566.0	649.1	719.6
37.5°	440.4	464.2	524.4	610.1	684.8
40°	392.0	417.5	481.1	571.1	648.3
42.5°	342.8	370.0	437.0	532.9	612.7
45°	297.0	321.6	395.4	493.9	575.3
47.5°	263.9	278.3	351.3	454.0	539.7
50°	240.1	246.9	308.9	415.8	504.9
52.5°	218.9	223.2	267.3	380.2	466.7
55°	197.7	202.0	230.8	342.8	427.7
57.5°	177.3	179.9	203.7	305.5	388.6
60°	158.7	160.4	183.3	268.1	345.4
62.5°	141.7	142.6	163.8	230.0	302.1
65°	124.7	125.6	146.0	191.8	258.0
67.5°	109.5	109.5	129.0	157.0	215.5
70°	94.2	94.2	110.3	127.3	170.6
72.5°	80.6	82.3	93.3	102.7	133.2
75°	67.0	71.3	77.2	81.5	96.7
77.5°	54.3	59.4	61.9	63.6	64.5
80°	42.4	45.8	47.5	48.4	46.7
82.5°	31.4	33.9	34.8	34.8	32.2
85°	19.5	22.1	23.8	22.9	19.5
87.5°	9.3	12.7	13.6	11.9	9.3
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1175396
 CATALOG NUMBER: S125RDRP-H1090D927-X4F0-XX-UDD-WVL-W

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	13.32	14.82	13.68	15.13	15.44	17.34	18.84	17.71	19.15	19.47
	3H	14.90	16.25	15.28	16.58	16.94	18.73	20.07	19.11	20.40	20.76
	4H	15.55	16.81	15.95	17.16	17.54	19.14	20.40	19.54	20.75	21.12
	6H	16.06	17.22	16.47	17.59	17.98	19.34	20.51	19.75	20.87	21.26
	8H	16.24	17.35	16.66	17.74	18.14	19.40	20.51	19.83	20.90	21.30
	12H	16.36	17.42	16.79	17.81	18.24	19.43	20.49	19.86	20.87	21.30
4H	2H	14.09	15.35	14.49	15.70	16.08	17.47	18.73	17.87	19.08	19.46
	3H	15.87	16.92	16.28	17.32	17.72	19.04	20.09	19.45	20.49	20.89
	4H	16.64	17.58	17.07	18.00	18.43	19.55	20.49	19.98	20.91	21.35
	6H	17.28	18.10	17.73	18.54	19.00	19.88	20.70	20.34	21.14	21.60
	8H	17.51	18.27	17.97	18.72	19.18	19.98	20.74	20.44	21.19	21.66
	12H	17.68	18.36	18.16	18.84	19.31	20.05	20.73	20.53	21.21	21.68
8H	4H	17.02	17.79	17.48	18.23	18.70	19.65	20.42	20.12	20.86	21.33
	6H	17.80	18.43	18.29	18.92	19.40	20.07	20.70	20.57	21.19	21.67
	8H	18.11	18.68	18.63	19.19	19.68	20.23	20.80	20.75	21.31	21.80
	12H	18.38	18.88	18.89	19.37	19.93	20.37	20.87	20.88	21.36	21.93
12H	4H	17.06	17.74	17.54	18.22	18.69	19.65	20.33	20.13	20.81	21.28
	6H	17.87	18.44	18.39	18.95	19.44	20.08	20.65	20.60	21.16	21.65
	8H	18.26	18.76	18.77	19.25	19.81	20.29	20.79	20.80	21.29	21.85