

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: P1061554

Luminaire Tested: S125RDRP-S1270D927-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D927-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

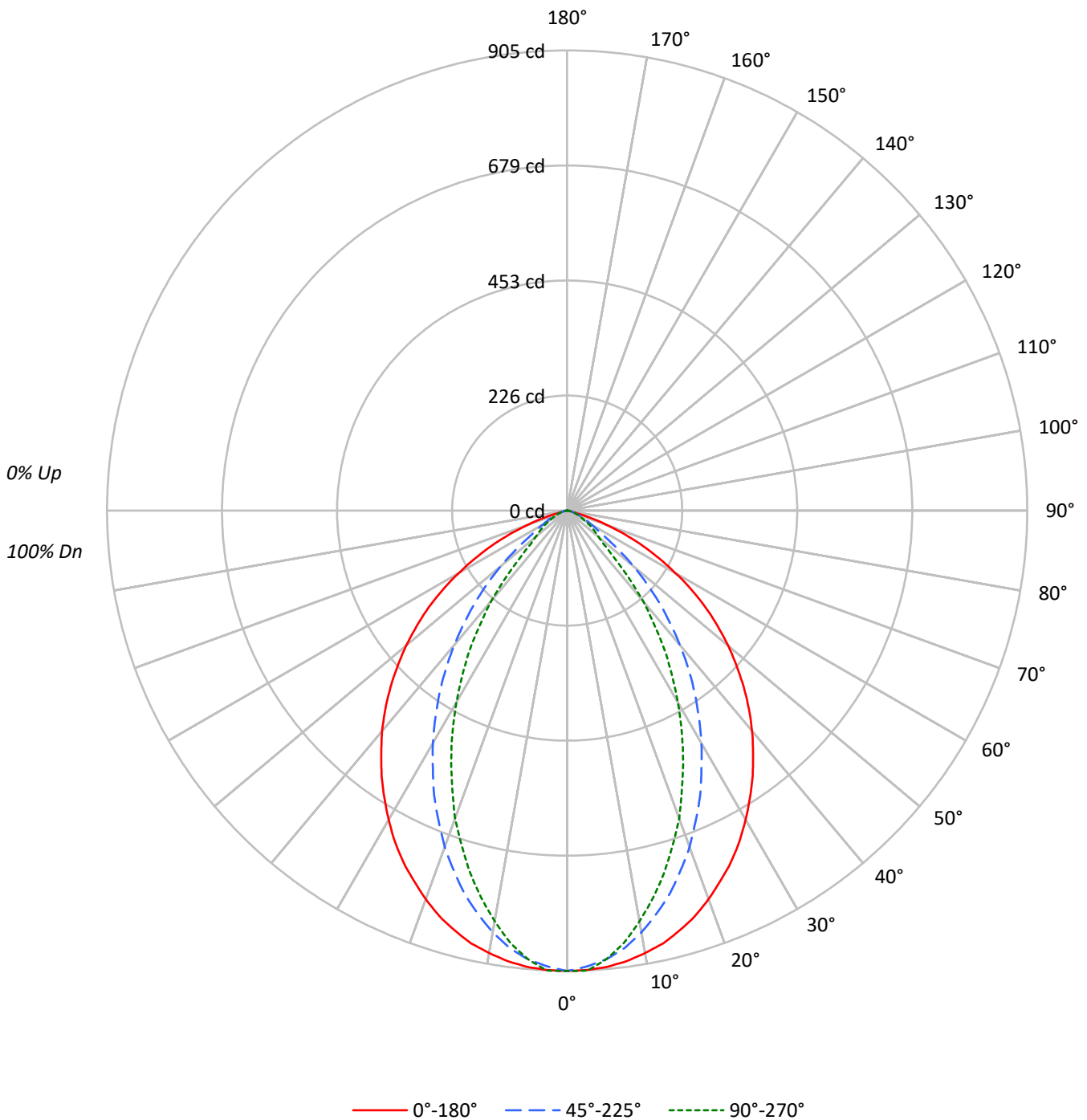
Lumens per Lamp: N/A
Luminaire Lumens: 1309.4 lumens
Efficiency: N/A
Efficacy: 31.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (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: P1061554

CATALOG NUMBER: S125RDRP-S1270D927-X4F0-XX-UDD-SVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1061554

CATALOG NUMBER: S125RDRP-S1270D927-X4F0-XX-UDD-SVL-B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6234	6234	6234
5°	6226	6122	6122
10°	6177	5888	5734
15°	6093	5560	5256
20°	5959	5159	4720
25°	5794	4702	4099
30°	5580	4198	3458
35°	5347	3675	2804
40°	5087	3102	2078
45°	4783	2487	1254
50°	4424	1824	862
55°	3991	1119	718
60°	3390	760	570
65°	2680	582	450
70°	1691	417	370
75°	551	306	306
80°	182	230	274
85°	95	182	182

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4783 cd/sqm



TEST NUMBER: P1061554

CATALOG NUMBER: S125RDRP-S1270D927-X4F0-XX-UDD-SVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	6.4
10°-20°	221.1	16.9
20°-30°	290.9	22.2
30°-40°	285.8	21.8
40°-50°	216.2	16.5
50°-60°	131.1	10.0
60°-70°	61.9	4.7
70°-80°	16.2	1.2
80°-90°	2.4	0.2
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°	595.7	45.5
0°-40°	881.6	67.3
0°-60°	1228.9	93.9
0°-90°	1309.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1309.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	901	898	886	887	886	85
15°	855	832	780	750	737	241
25°	763	705	619	561	540	351
35°	636	551	437	360	334	397
45°	491	386	255	162	129	378
55°	332	228	93	63	60	296
65°	164	84	36	30	28	162
75°	21	14	12	12	12	32
85°	1	1	2	2	2	2
90°	0	0	0	0	0	



TEST NUMBER: P1061554

CATALOG NUMBER: S125RDRP-S1270D927-X4F0-XX-UDD-SVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.4	905.4	905.4	905.4	905.4
2.5°	904.2	904.2	897.3	905.4	905.4
5°	900.8	898.5	885.8	887.0	885.8
7.5°	893.9	889.3	867.4	861.7	857.1
10°	883.5	874.3	842.1	828.3	820.2
12.5°	872.0	855.9	812.2	792.6	780.0
15°	854.8	831.7	780.0	750.1	737.4
17.5°	836.3	803.0	742.0	706.4	690.2
20°	813.3	774.2	704.1	660.3	644.2
22.5°	788.0	742.0	660.3	612.0	590.2
25°	762.7	705.2	618.9	561.4	539.5
27.5°	734.0	668.4	571.8	511.9	487.8
30°	701.8	631.6	528.0	465.9	434.9
32.5°	669.5	593.6	482.0	414.1	383.1
35°	636.2	551.0	437.2	360.1	333.6
37.5°	600.5	510.8	391.1	310.6	279.6
40°	566.0	470.5	345.1	260.0	231.2
42.5°	529.2	430.3	299.1	210.5	178.3
45°	491.2	386.5	255.4	162.2	128.8
47.5°	452.1	347.4	211.7	119.6	96.6
50°	413.0	306.0	170.3	88.6	80.5
52.5°	372.7	265.7	128.8	73.6	70.2
55°	332.5	227.8	93.2	63.3	59.8
57.5°	291.1	186.4	70.2	54.1	50.6
60°	246.2	149.6	55.2	44.9	41.4
62.5°	204.8	117.3	44.9	36.8	34.5
65°	164.5	84.0	35.7	29.9	27.6
67.5°	123.1	56.4	27.6	23.0	23.0
70°	84.0	36.8	20.7	18.4	18.4
72.5°	50.6	21.9	15.0	15.0	15.0
75°	20.7	13.8	11.5	11.5	11.5
77.5°	6.9	8.1	8.1	9.2	9.2
80°	4.6	4.6	5.8	6.9	6.9
82.5°	2.3	3.5	3.5	4.6	4.6
85°	1.2	1.2	2.3	2.3	2.3
87.5°	0.0	0.0	0.0	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1061554
 CATALOG NUMBER: S125RDRP-S1270D927-X4F0-XX-UDD-SVL-B

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	15.69	17.02	16.05	17.33	17.65	6.35	7.68	6.71	7.99	8.30
	3H	16.39	17.57	16.77	17.90	18.27	7.13	8.30	7.50	8.63	9.00
	4H	16.41	17.51	16.81	17.86	18.24	7.37	8.47	7.78	8.82	9.20
	6H	16.34	17.35	16.76	17.72	18.11	7.55	8.56	7.97	8.93	9.32
	8H	16.30	17.25	16.73	17.64	18.05	7.60	8.55	8.03	8.94	9.35
	12H	16.26	17.17	16.69	17.55	17.98	7.61	8.51	8.04	8.90	9.33
4H	2H	15.52	16.62	15.92	16.97	17.35	6.83	7.93	7.24	8.28	8.66
	3H	16.27	17.16	16.68	17.56	17.96	7.74	8.63	8.15	9.04	9.44
	4H	16.28	17.08	16.72	17.50	17.94	8.05	8.85	8.49	9.27	9.71
	6H	16.22	16.91	16.69	17.35	17.82	8.31	9.00	8.78	9.44	9.91
	8H	16.17	16.81	16.64	17.26	17.73	8.38	9.02	8.85	9.46	9.93
	12H	16.13	16.69	16.61	17.17	17.65	8.40	8.97	8.89	9.45	9.92
8H	4H	16.17	16.80	16.64	17.25	17.72	8.17	8.80	8.64	9.25	9.72
	6H	16.09	16.61	16.59	17.11	17.59	8.48	9.00	8.99	9.50	9.98
	8H	16.04	16.50	16.56	17.02	17.51	8.59	9.06	9.11	9.57	10.06
	12H	16.00	16.41	16.51	16.90	17.47	8.65	9.06	9.17	9.56	10.13
12H	4H	16.12	16.69	16.61	17.17	17.64	8.14	8.70	8.62	9.18	9.66
	6H	16.03	16.50	16.56	17.02	17.51	8.46	8.92	8.98	9.44	9.93
	8H	16.00	16.41	16.51	16.91	17.48	8.60	9.01	9.11	9.50	10.07