

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: P1061551

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D927-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

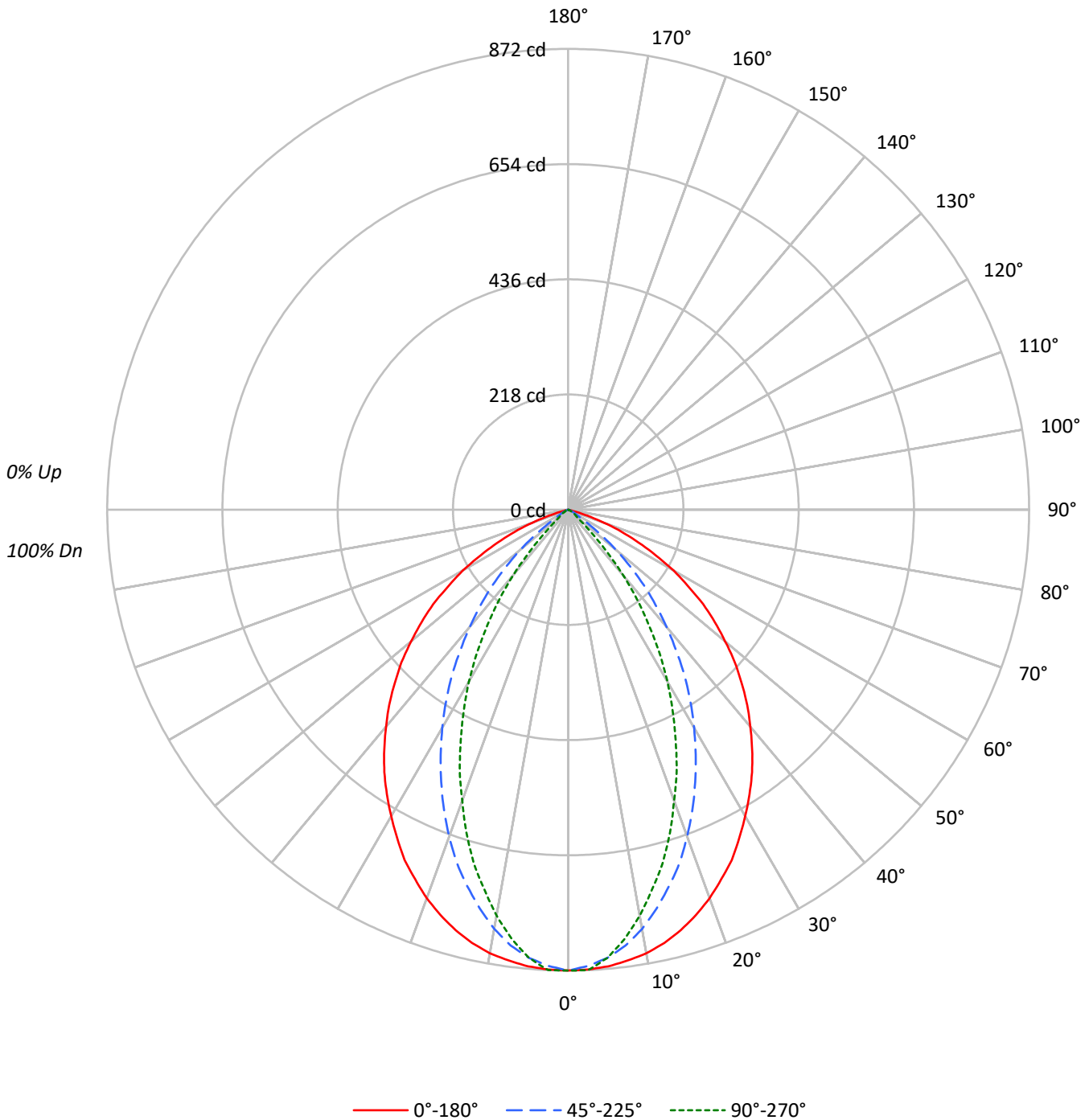
Lumens per Lamp: N/A
Luminaire Lumens: 1126.5 lumens
Efficiency: N/A
Efficacy: 27.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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: P1061551

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

Luminous Intensity Polar Plot





TEST NUMBER: P1061551

CATALOG NUMBER: S125RDRP-S1270D927-X4F0-XX-UDD-BVL-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	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6004	6004	6004
5°	5995	5883	5883
10°	5960	5630	5453
15°	5871	5256	4928
20°	5731	4821	4290
25°	5558	4317	3653
30°	5323	3786	2981
35°	5095	3229	2233
40°	4818	2606	1447
45°	4514	1972	627
50°	4153	1256	235
55°	3742	552	166
60°	3169	238	112
65°	2398	150	57
70°	1460	70	24
75°	306	32	32
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4514 cd/sqm



TEST NUMBER: P1061551

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	7.1
10°-20°	209.5	18.6
20°-30°	269.0	23.9
30°-40°	253.3	22.5
40°-50°	177.1	15.7
50°-60°	94.6	8.4
60°-70°	37.7	3.4
70°-80°	4.9	0.4
80°-90°	0.0	0.0
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°	558.9	49.6
0°-40°	812.2	72.1
0°-60°	1083.9	96.2
0°-90°	1126.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1126.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	872	872	872	872	872	
5°	867	865	851	854	851	82
15°	824	797	737	703	691	232
25°	732	667	568	506	481	336
35°	606	510	384	297	266	378
45°	464	347	202	98	64	358
55°	312	191	46	16	14	276
65°	147	59	9	5	4	146
75°	12	4	1	1	1	22
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P1061551

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	872.0	872.0	872.0	872.0	872.0
2.5°	870.8	872.0	863.9	870.8	872.0
5°	867.4	865.1	851.2	853.5	851.2
7.5°	860.5	854.7	831.7	823.6	819.0
10°	852.4	839.7	805.2	788.0	779.9
12.5°	839.7	821.3	773.0	746.6	735.1
15°	823.6	797.2	737.4	702.9	691.4
17.5°	804.1	769.6	700.6	658.0	640.7
20°	782.2	736.2	658.0	607.4	585.5
22.5°	756.9	704.0	614.3	557.9	536.1
25°	731.6	667.2	568.3	506.1	480.8
27.5°	700.6	629.2	522.3	455.5	427.9
30°	669.5	591.3	476.2	403.8	375.0
32.5°	638.4	551.0	430.2	349.7	320.9
35°	606.2	509.6	384.2	296.8	265.7
37.5°	571.7	468.2	334.7	246.2	214.0
40°	536.1	427.9	289.9	196.7	161.0
42.5°	501.5	387.7	245.0	148.4	109.3
45°	463.6	347.4	202.5	97.8	64.4
47.5°	427.9	308.3	158.7	56.4	33.4
50°	387.7	268.0	117.3	29.9	21.9
52.5°	349.7	228.9	78.2	19.6	17.3
55°	311.7	191.0	46.0	16.1	13.8
57.5°	268.0	154.1	25.3	12.7	10.4
60°	230.1	120.8	17.3	9.2	8.1
62.5°	186.4	88.6	12.7	6.9	5.8
65°	147.2	58.7	9.2	4.6	3.5
67.5°	109.3	34.5	5.8	2.3	2.3
70°	72.5	18.4	3.5	1.2	1.2
72.5°	38.0	8.1	2.3	1.2	1.2
75°	11.5	3.5	1.2	1.2	1.2
77.5°	0.0	1.2	0.0	0.0	1.2
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1061551
 CATALOG NUMBER: S125RDRP-S1270D927-X4F0-XX-UDD-BVL-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	15.17	16.43	15.53	16.75	17.06	0.00	0.00	0.00	0.00	0.00
	3H	15.75	16.87	16.13	17.20	17.56	0.00	0.00	0.00	0.00	0.00
	4H	15.72	16.75	16.12	17.10	17.49	0.00	0.00	0.00	0.00	0.00
	6H	15.63	16.58	16.05	16.95	17.34	0.00	0.00	0.00	0.00	0.00
	8H	15.59	16.48	16.02	16.87	17.28	0.00	0.00	0.00	0.00	0.00
	12H	15.54	16.39	15.97	16.78	17.21	0.00	0.00	0.00	0.00	0.00
4H	2H	14.94	15.97	15.35	16.33	16.71	0.00	0.00	0.00	0.00	0.00
	3H	15.53	16.37	15.95	16.78	17.18	0.00	0.00	0.00	0.00	0.00
	4H	15.48	16.23	15.92	16.65	17.09	0.00	0.00	0.00	0.00	0.00
	6H	15.40	16.03	15.86	16.48	16.95	0.00	0.00	0.00	0.00	0.00
	8H	15.34	15.93	15.81	16.38	16.85	0.00	0.00	0.00	0.00	0.00
	12H	15.29	15.81	15.77	16.29	16.77	0.00	0.00	0.00	0.00	0.00
8H	4H	15.34	15.93	15.81	16.38	16.85	0.00	0.00	0.00	0.00	0.00
	6H	15.23	15.71	15.74	16.21	16.69	0.00	0.00	0.00	0.00	0.00
	8H	15.16	15.60	15.69	16.11	16.61	0.00	0.00	0.00	0.00	0.00
	12H	15.12	15.50	15.63	15.99	16.57	0.00	0.00	0.00	0.00	0.00
12H	4H	15.29	15.81	15.77	16.29	16.77	0.00	0.00	0.00	0.00	0.00
	6H	15.16	15.60	15.69	16.11	16.61	0.00	0.00	0.00	0.00	0.00
	8H	15.12	15.50	15.63	15.99	16.57	0.00	0.00	0.00	0.00	0.00