

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: P1061671

Luminaire Tested: S125RDRP-S375D950-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061671  
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-S375D950-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: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

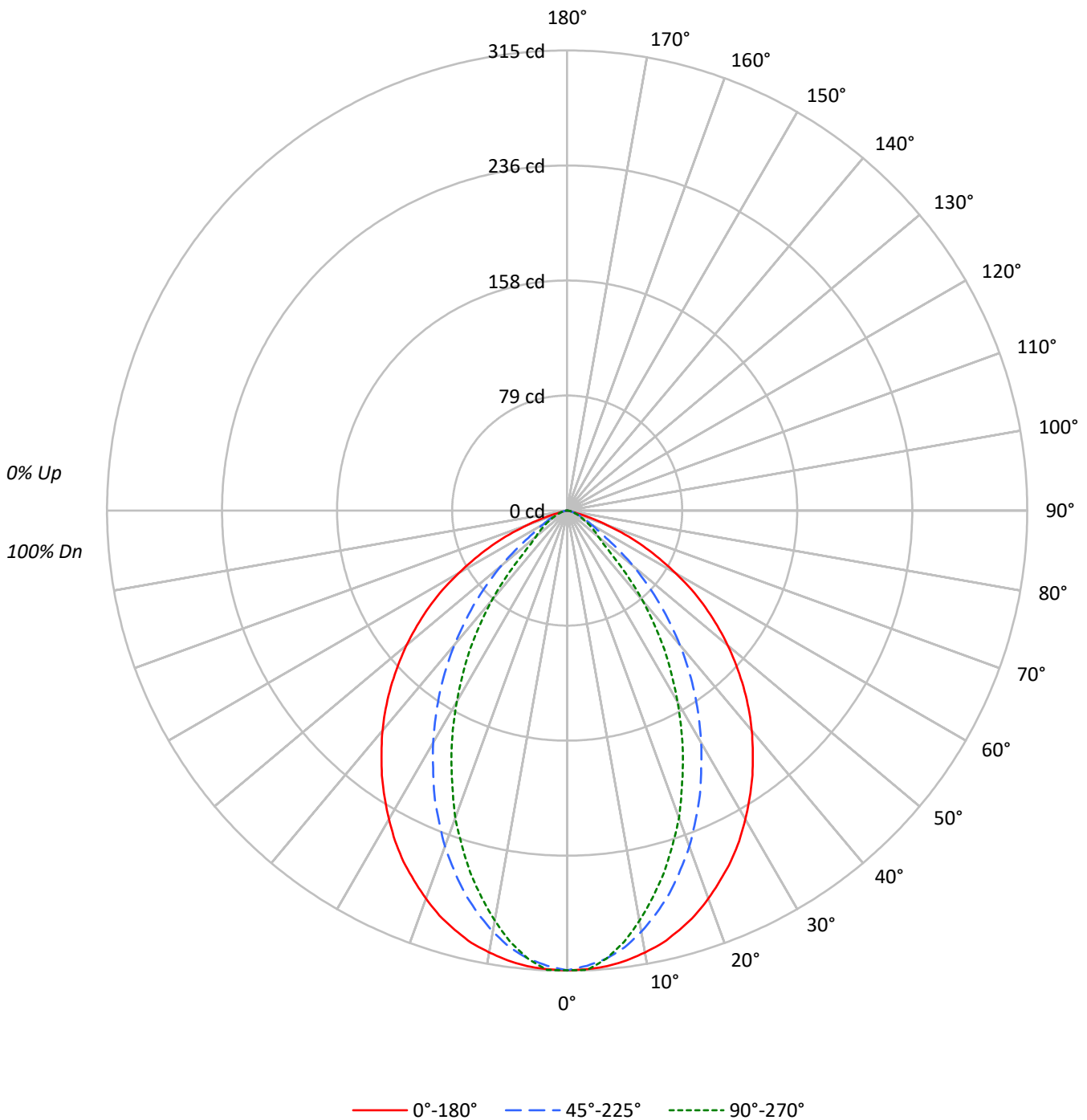
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 455.1 lumens  
Efficiency: N/A  
Efficacy: 36.4 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): 12.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P1061671

CATALOG NUMBER: S125RDRP-S375D950-X4F0-XX-UDD-SVL-B

### Luminous Intensity Polar Plot





TEST NUMBER: P1061671

CATALOG NUMBER: S125RDRP-S375D950-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°	2167	2167	2167
5°	2164	2128	2128
10°	2147	2046	1993
15°	2118	1932	1827
20°	2071	1793	1641
25°	2014	1634	1424
30°	1939	1459	1201
35°	1858	1277	975
40°	1768	1079	723
45°	1662	865	436
50°	1537	634	300
55°	1388	389	250
60°	1179	264	198
65°	932	202	156
70°	588	145	129
75°	192	106	106
80°	63	79	95
85°	32	63	63

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1662 cd/sqm



TEST NUMBER: P1061671

CATALOG NUMBER: S125RDRP-S375D950-X4F0-XX-UDD-SVL-B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.1	6.4
10°-20°	76.9	16.9
20°-30°	101.1	22.2
30°-40°	99.3	21.8
40°-50°	75.2	16.5
50°-60°	45.6	10.0
60°-70°	21.5	4.7
70°-80°	5.6	1.2
80°-90°	0.8	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°	207.1	45.5
0°-40°	306.4	67.3
0°-60°	427.1	93.9
0°-90°	455.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	455.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	315	315	315	315	315	
5°	313	312	308	308	308	30
15°	297	289	271	261	256	84
25°	265	245	215	195	188	122
35°	221	192	152	125	116	138
45°	171	134	89	56	45	131
55°	116	79	32	22	21	103
65°	57	29	12	10	10	56
75°	7	5	4	4	4	11
85°	0	0	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P1061671

CATALOG NUMBER: S125RDRP-S375D950-X4F0-XX-UDD-SVL-B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	314.7	314.7	314.7	314.7	314.7
2.5°	314.3	314.3	311.9	314.7	314.7
5°	313.1	312.3	307.9	308.3	307.9
7.5°	310.7	309.1	301.5	299.5	297.9
10°	307.1	303.9	292.7	287.9	285.1
12.5°	303.1	297.5	282.3	275.5	271.1
15°	297.1	289.1	271.1	260.7	256.3
17.5°	290.7	279.1	257.9	245.5	239.9
20°	282.7	269.1	244.7	229.5	223.9
22.5°	273.9	257.9	229.5	212.7	205.1
25°	265.1	245.1	215.1	195.1	187.5
27.5°	255.1	232.3	198.7	177.9	169.5
30°	243.9	219.5	183.5	161.9	151.1
32.5°	232.7	206.3	167.5	143.9	133.1
35°	221.1	191.5	151.9	125.1	116.0
37.5°	208.7	177.5	135.9	108.0	97.2
40°	196.7	163.5	120.0	90.4	80.4
42.5°	183.9	149.5	104.0	73.2	62.0
45°	170.7	134.3	88.8	56.4	44.8
47.5°	157.1	120.7	73.6	41.6	33.6
50°	143.5	106.4	59.2	30.8	28.0
52.5°	129.5	92.4	44.8	25.6	24.4
55°	115.6	79.2	32.4	22.0	20.8
57.5°	101.2	64.8	24.4	18.8	17.6
60°	85.6	52.0	19.2	15.6	14.4
62.5°	71.2	40.8	15.6	12.8	12.0
65°	57.2	29.2	12.4	10.4	9.6
67.5°	42.8	19.6	9.6	8.0	8.0
70°	29.2	12.8	7.2	6.4	6.4
72.5°	17.6	7.6	5.2	5.2	5.2
75°	7.2	4.8	4.0	4.0	4.0
77.5°	2.4	2.8	2.8	3.2	3.2
80°	1.6	1.6	2.0	2.4	2.4
82.5°	0.8	1.2	1.2	1.6	1.6
85°	0.4	0.4	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1061671

CATALOG NUMBER: S125RDRP-S375D950-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	12.02	13.35	12.38	13.66	13.98	2.67	4.01	3.04	4.32	4.63
	3H	12.72	13.90	13.10	14.23	14.60	3.45	4.63	3.83	4.96	5.33
	4H	12.74	13.84	13.14	14.19	14.57	3.70	4.80	4.11	5.15	5.53
	6H	12.67	13.68	13.09	14.05	14.44	3.88	4.89	4.30	5.26	5.65
	8H	12.63	13.58	13.06	13.97	14.38	3.93	4.88	4.36	5.27	5.67
	12H	12.59	13.50	13.02	13.88	14.31	3.93	4.84	4.37	5.23	5.66
4H	2H	11.85	12.94	12.25	13.30	13.68	3.16	4.26	3.56	4.61	4.99
	3H	12.60	13.49	13.01	13.89	14.29	4.07	4.96	4.48	5.36	5.77
	4H	12.61	13.41	13.05	13.83	14.27	4.38	5.18	4.82	5.60	6.04
	6H	12.55	13.24	13.01	13.68	14.15	4.64	5.33	5.10	5.77	6.24
	8H	12.50	13.14	12.97	13.59	14.06	4.71	5.34	5.18	5.79	6.26
	12H	12.46	13.02	12.94	13.50	13.98	4.73	5.29	5.22	5.78	6.25
8H	4H	12.50	13.13	12.97	13.58	14.05	4.49	5.13	4.96	5.58	6.05
	6H	12.42	12.94	12.92	13.44	13.92	4.81	5.33	5.31	5.83	6.31
	8H	12.37	12.83	12.89	13.35	13.84	4.92	5.38	5.44	5.90	6.39
	12H	12.33	12.74	12.84	13.23	13.80	4.98	5.39	5.49	5.89	6.46
12H	4H	12.45	13.01	12.94	13.50	13.97	4.47	5.03	4.95	5.51	5.99
	6H	12.36	12.83	12.88	13.34	13.84	4.78	5.25	5.31	5.77	6.26
	8H	12.33	12.74	12.84	13.23	13.81	4.92	5.33	5.44	5.83	6.40