

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: P1061567

Luminaire Tested: S125RDRP-S1270D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061567  
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-S1270D930-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

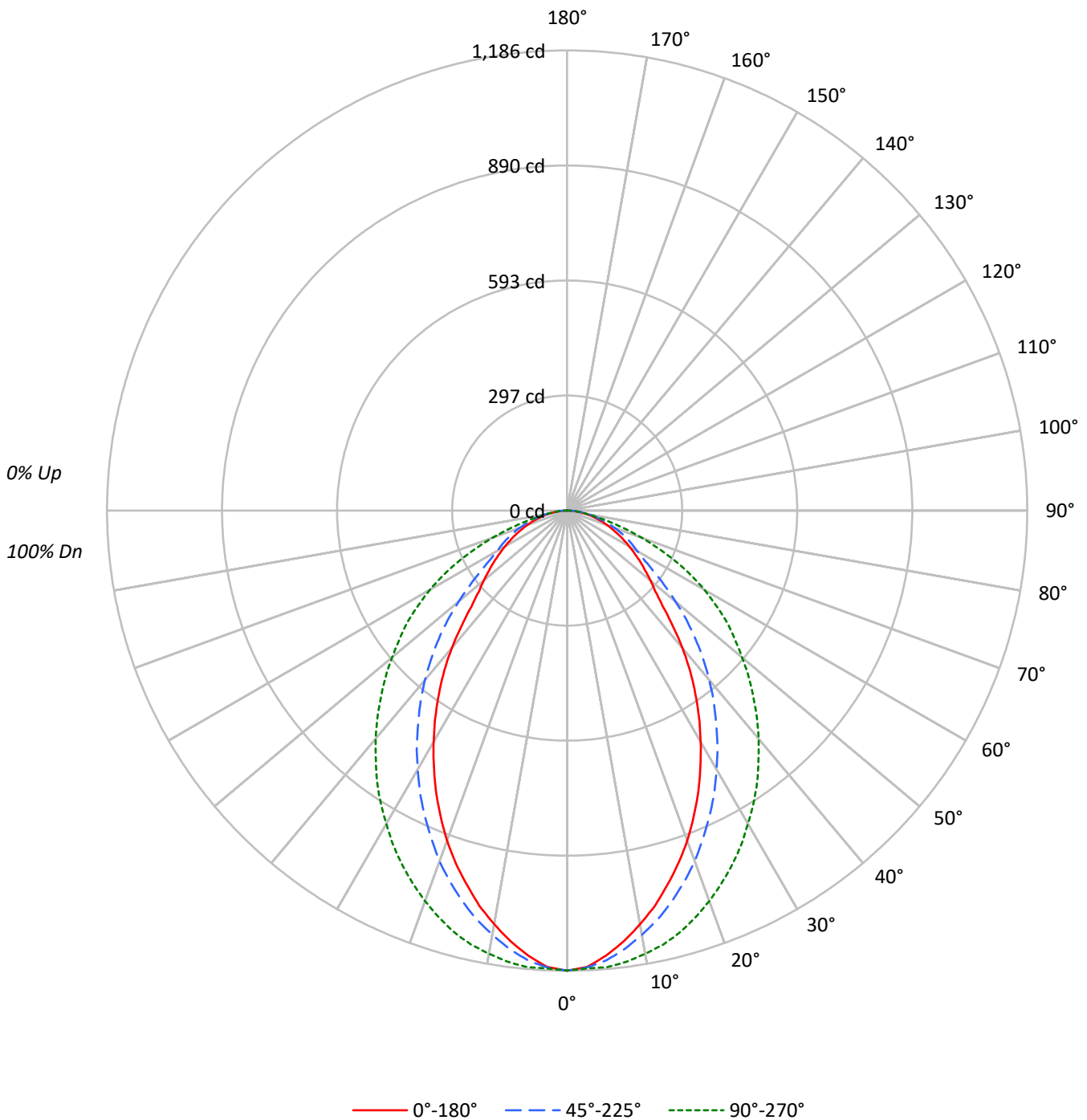
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2222.8 lumens  
Efficiency: N/A  
Efficacy: 53.2 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 (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: P1061567

CATALOG NUMBER: S125RDRP-S1270D930-X4F0-XX-UDD-WVL-S

### Luminous Intensity Polar Plot



TEST NUMBER: P1061567

CATALOG NUMBER: S125RDRP-S1270D930-X4F0-XX-UDD-WVL-S

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8164	8164	8164
5°	7957	8040	8163
10°	7569	7760	8107
15°	7117	7430	8021
20°	6631	7047	7846
25°	6074	6596	7649
30°	5471	6121	7411
35°	4839	5625	7178
40°	4152	5120	6899
45°	3390	4556	6609
50°	3007	3908	6306
55°	2759	3242	6043
60°	2545	2871	5628
65°	2374	2760	5018
70°	2218	2623	4101
75°	2048	2458	3025
80°	1927	2300	2209
85°	1777	2244	1872

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6609 cd/sqm



TEST NUMBER: P1061567

CATALOG NUMBER: S125RDRP-S1270D930-X4F0-XX-UDD-WVL-S

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.7	4.9
10°-20°	295.6	13.3
20°-30°	406.2	18.3
30°-40°	430.5	19.4
40°-50°	375.8	16.9
50°-60°	285.5	12.8
60°-70°	191.3	8.6
70°-80°	98.6	4.4
80°-90°	29.6	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°	811.5	36.5
0°-40°	1242.0	55.9
0°-60°	1903.3	85.6
0°-90°	2222.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2222.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1186	1186	1186	1186	1186	
5°	1151	1163	1163	1172	1181	108
15°	998	1018	1042	1089	1125	280
25°	800	824	868	940	1007	367
35°	576	609	669	764	854	359
45°	348	383	468	579	679	275
55°	230	237	270	397	503	206
65°	146	149	169	226	308	145
75°	77	82	92	98	114	82
85°	22	28	28	26	24	25
90°	0	0	0	0	0	



TEST NUMBER: P1061567

CATALOG NUMBER: S125RDRP-S1270D930-X4F0-XX-UDD-WVL-S

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1185.7	1185.7	1185.7	1185.7	1185.7
2.5°	1177.4	1185.7	1178.6	1178.6	1181.0
5°	1151.3	1163.2	1163.2	1171.5	1181.0
7.5°	1119.4	1132.4	1139.5	1158.5	1172.7
10°	1082.6	1096.9	1109.9	1138.3	1159.6
12.5°	1043.6	1059.0	1079.1	1115.8	1145.4
15°	998.5	1017.5	1042.4	1088.6	1125.3
17.5°	953.5	972.5	1003.3	1057.8	1099.2
20°	905.0	925.1	961.8	1021.0	1070.8
22.5°	852.8	875.4	914.4	982.0	1040.0
25°	799.5	824.4	868.2	940.5	1006.8
27.5°	743.9	773.5	820.9	897.9	971.3
30°	688.2	717.8	769.9	854.0	932.2
32.5°	632.5	664.5	721.4	810.2	894.3
35°	575.7	608.8	669.2	764.0	854.0
37.5°	520.0	553.2	620.7	719.0	810.2
40°	462.0	496.3	569.7	672.8	767.6
42.5°	402.7	439.5	518.8	625.4	723.7
45°	348.2	382.6	467.9	579.2	678.7
47.5°	308.0	330.5	416.9	531.8	634.9
50°	280.7	292.6	364.8	485.6	588.7
52.5°	253.5	263.0	316.3	438.3	544.9
55°	229.8	236.9	270.1	396.8	503.4
57.5°	206.1	213.2	234.5	355.4	454.9
60°	184.8	190.7	208.5	311.5	408.7
62.5°	164.6	169.4	188.3	270.1	358.9
65°	145.7	149.2	169.4	226.2	308.0
67.5°	126.7	130.3	150.4	184.8	253.5
70°	110.2	111.3	130.3	150.4	203.7
72.5°	93.6	94.8	110.2	122.0	156.4
75°	77.0	81.7	92.4	98.3	113.7
77.5°	62.8	68.7	74.6	77.0	77.0
80°	48.6	55.7	58.0	58.0	55.7
82.5°	35.5	41.5	42.6	40.3	37.9
85°	22.5	28.4	28.4	26.1	23.7
87.5°	10.7	15.4	15.4	14.2	10.7
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1061567  
 CATALOG NUMBER: S125RDRP-S1270D930-X4F0-XX-UDD-WVL-S

**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	13.90	15.40	14.27	15.71	16.03	17.83	19.33	18.20	19.64	19.96
	3H	15.47	16.82	15.85	17.14	17.51	19.25	20.59	19.63	20.92	21.28
	4H	16.09	17.35	16.49	17.69	18.07	19.67	20.93	20.07	21.27	21.65
	6H	16.58	17.74	16.99	18.11	18.50	19.88	21.05	20.30	21.41	21.81
	8H	16.76	17.86	17.18	18.25	18.65	19.94	21.05	20.37	21.44	21.84
	12H	16.88	17.94	17.31	18.32	18.75	19.98	21.04	20.41	21.42	21.85
4H	2H	14.64	15.90	15.04	16.25	16.63	17.96	19.22	18.36	19.56	19.94
	3H	16.42	17.46	16.83	17.86	18.26	19.57	20.61	19.98	21.01	21.41
	4H	17.15	18.09	17.59	18.51	18.95	20.09	21.03	20.53	21.45	21.89
	6H	17.79	18.61	18.25	19.05	19.51	20.44	21.25	20.89	21.70	22.16
	8H	18.02	18.78	18.48	19.23	19.69	20.53	21.30	21.00	21.74	22.21
	12H	18.19	18.87	18.67	19.35	19.82	20.61	21.29	21.09	21.77	22.24
8H	4H	17.55	18.32	18.02	18.76	19.23	20.20	20.96	20.66	21.41	21.88
	6H	18.34	18.97	18.84	19.46	19.94	20.64	21.27	21.14	21.76	22.24
	8H	18.66	19.23	19.18	19.74	20.23	20.80	21.36	21.31	21.87	22.36
	12H	18.94	19.44	19.45	19.93	20.50	20.93	21.43	21.44	21.93	22.49
12H	4H	17.60	18.28	18.08	18.76	19.23	20.20	20.88	20.68	21.36	21.83
	6H	18.42	18.99	18.94	19.50	19.99	20.65	21.22	21.17	21.73	22.22
	8H	18.82	19.32	19.33	19.81	20.38	20.86	21.36	21.37	21.86	22.42