

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: P1061652

Luminaire Tested: S125RDRP-S375D935-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061652  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S375D935-X4F0-XX-UDD-BVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

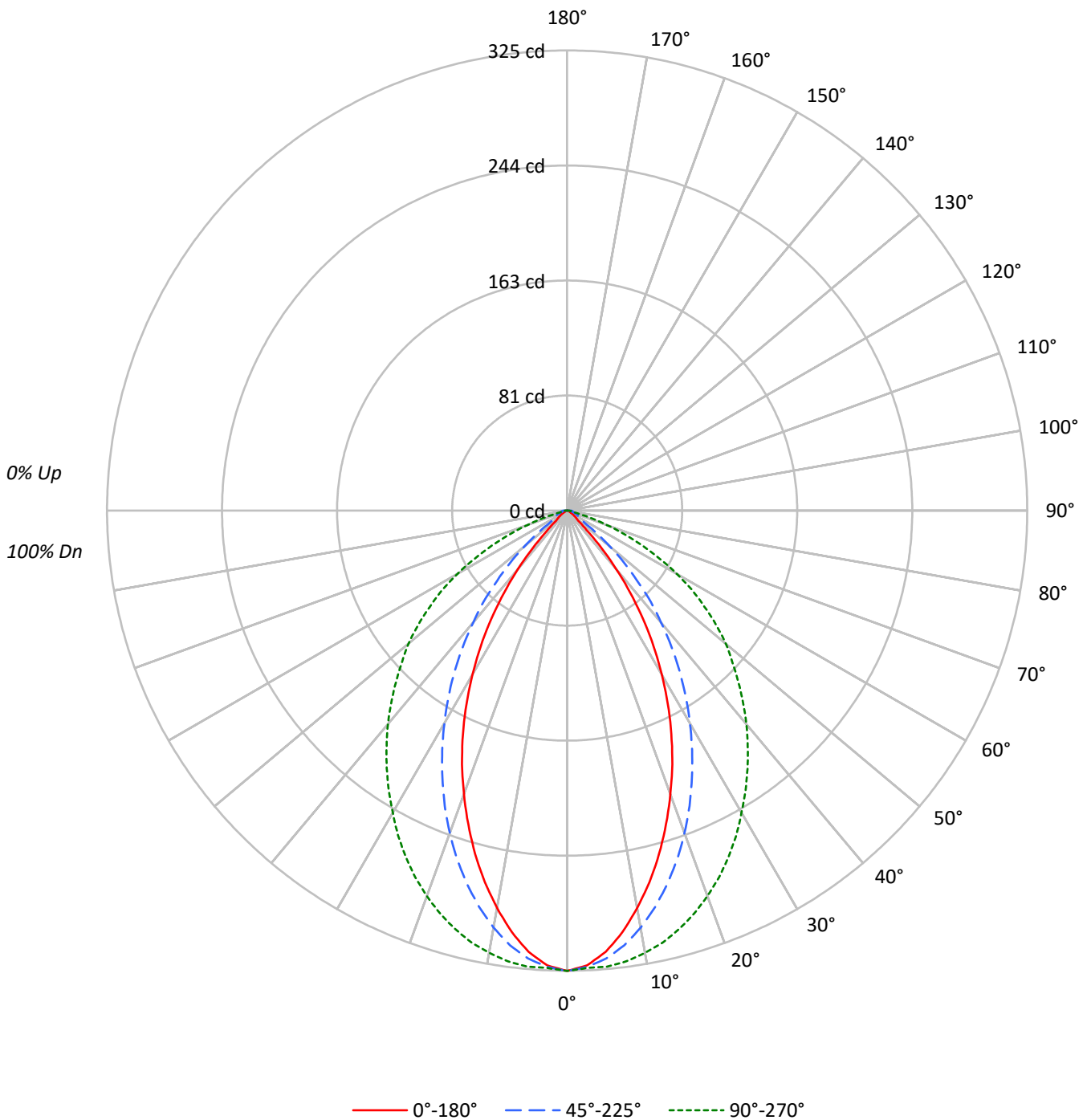
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 420.6 lumens  
Efficiency: N/A  
Efficacy: 33.6 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98  
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: P1061652

CATALOG NUMBER: S125RDRP-S375D935-X4F0-XX-UDD-BVL-W

### Luminous Intensity Polar Plot





TEST NUMBER: P1061652

CATALOG NUMBER: S125RDRP-S375D935-X4F0-XX-UDD-BVL-W

**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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53					53			
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49					49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45					45			
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38					38			

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

	0°	45°	90°
0°	2238	2238	2238
5°	2162	2194	2235
10°	1993	2091	2217
15°	1789	1947	2180
20°	1561	1776	2123
25°	1323	1583	2050
30°	1062	1379	1958
35°	787	1162	1867
40°	487	928	1770
45°	190	679	1664
50°	89	425	1567
55°	65	182	1422
60°	45	129	1234
65°	29	135	960
70°	28	123	604
75°	37	125	192
80°	56	143	131
85°	87	284	197

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1664 cd/sqm



TEST NUMBER: P1061652

CATALOG NUMBER: S125RDRP-S375D935-X4F0-XX-UDD-BVL-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.8	7.1
10°-20°	77.2	18.4
20°-30°	98.4	23.4
30°-40°	91.6	21.8
40°-50°	63.0	15.0
50°-60°	35.7	8.5
60°-70°	16.9	4.0
70°-80°	5.3	1.3
80°-90°	2.8	0.7
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°	205.4	48.8
0°-40°	297.0	70.6
0°-60°	395.7	94.1
0°-90°	420.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	420.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	325	325	325	325	325	
5°	313	317	318	320	323	29
15°	251	259	273	294	306	70
25°	174	185	208	244	270	79
35°	94	107	138	186	222	58
45°	20	31	70	126	171	18
55°	5	6	15	73	118	5
65°	2	2	8	26	59	2
75°	1	3	5	5	7	1
85°	1	3	4	3	2	1
90°	0	0	0	0	0	



TEST NUMBER: P1061652

CATALOG NUMBER: S125RDRP-S375D935-X4F0-XX-UDD-BVL-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	325.1	325.1	325.1	325.1	325.1
2.5°	321.5	324.7	322.6	322.9	323.3
5°	312.8	317.1	317.5	320.4	323.3
7.5°	300.2	305.6	309.6	316.4	321.1
10°	285.0	291.5	299.1	310.3	317.1
12.5°	268.7	276.3	286.8	302.7	312.5
15°	251.0	259.4	273.1	293.7	305.9
17.5°	232.3	241.7	258.3	282.8	298.4
20°	213.1	223.2	242.4	270.5	289.7
22.5°	194.0	204.4	225.8	257.2	280.3
25°	174.1	185.3	208.4	243.5	269.8
27.5°	153.9	165.4	191.1	229.4	258.6
30°	133.6	145.9	173.4	214.9	246.3
32.5°	113.8	126.1	156.0	200.5	234.4
35°	93.6	106.6	138.3	185.7	222.1
37.5°	73.3	87.4	121.0	170.5	209.5
40°	54.2	67.5	103.3	155.7	196.9
42.5°	36.1	49.1	87.4	140.9	183.9
45°	19.5	31.1	69.7	126.1	170.9
47.5°	10.5	16.6	54.5	111.6	158.2
50°	8.3	9.4	39.7	98.3	146.3
52.5°	6.9	7.6	26.0	85.6	132.6
55°	5.4	6.1	15.2	72.6	118.5
57.5°	4.3	5.1	9.8	60.3	104.8
60°	3.3	4.0	9.4	48.4	89.6
62.5°	2.5	2.9	8.7	37.2	73.7
65°	1.8	2.2	8.3	26.0	58.9
67.5°	1.4	1.8	7.6	16.6	44.1
70°	1.4	1.4	6.1	10.8	30.0
72.5°	1.4	2.5	5.4	7.2	18.1
75°	1.4	3.3	4.7	5.1	7.2
77.5°	1.4	3.6	4.0	4.0	4.0
80°	1.4	3.3	3.6	3.6	3.3
82.5°	1.4	2.9	3.3	3.6	2.9
85°	1.1	2.9	3.6	3.3	2.5
87.5°	1.1	2.9	3.3	2.9	1.8
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1061652  
 CATALOG NUMBER: S125RDRP-S375D935-X4F0-XX-UDD-BVL-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	0.00	0.00	0.00	0.00	0.00	12.04	13.33	12.41	13.65	13.96
	3H	0.00	0.00	0.00	0.00	0.00	12.76	13.91	13.14	14.24	14.60
	4H	0.00	0.00	0.00	0.00	0.00	12.79	13.85	13.19	14.20	14.58
	6H	0.00	0.00	0.00	0.00	0.00	12.74	13.71	13.15	14.08	14.48
	8H	0.00	0.00	0.00	0.00	0.00	12.72	13.64	13.15	14.03	14.44
	12H	0.00	0.00	0.00	0.00	0.00	12.70	13.58	13.13	13.96	14.39
4H	2H	0.00	0.00	0.00	0.00	0.00	11.83	12.90	12.24	13.25	13.63
	3H	0.00	0.00	0.00	0.00	0.00	12.59	13.46	13.00	13.86	14.27
	4H	0.00	0.00	0.00	0.00	0.01	12.62	13.39	13.06	13.81	14.26
	6H	0.00	0.31	0.11	0.76	1.23	12.60	13.27	13.06	13.71	14.18
	8H	0.22	0.84	0.69	1.29	1.76	12.58	13.21	13.05	13.65	14.13
	12H	0.78	1.33	1.27	1.81	2.29	12.59	13.14	13.08	13.62	14.10
8H	4H	0.00	0.42	0.26	0.86	1.34	12.50	13.13	12.97	13.57	14.05
	6H	1.36	1.87	1.86	2.36	2.84	12.49	13.00	13.00	13.50	13.98
	8H	2.15	2.60	2.67	3.12	3.61	12.51	12.96	13.03	13.48	13.97
	12H	2.99	3.39	3.51	3.89	4.46	12.57	12.97	13.08	13.47	14.04
12H	4H	0.01	0.56	0.50	1.05	1.52	12.46	13.01	12.95	13.49	13.97
	6H	1.73	2.19	2.25	2.70	3.20	12.45	12.90	12.97	13.42	13.91
	8H	2.72	3.12	3.24	3.62	4.19	12.50	12.90	13.01	13.39	13.97