

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: P1175416

Luminaire Tested: S125RDRP-H375D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1175416  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/18/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-H375D935-X4F0-XX-UDD-WVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

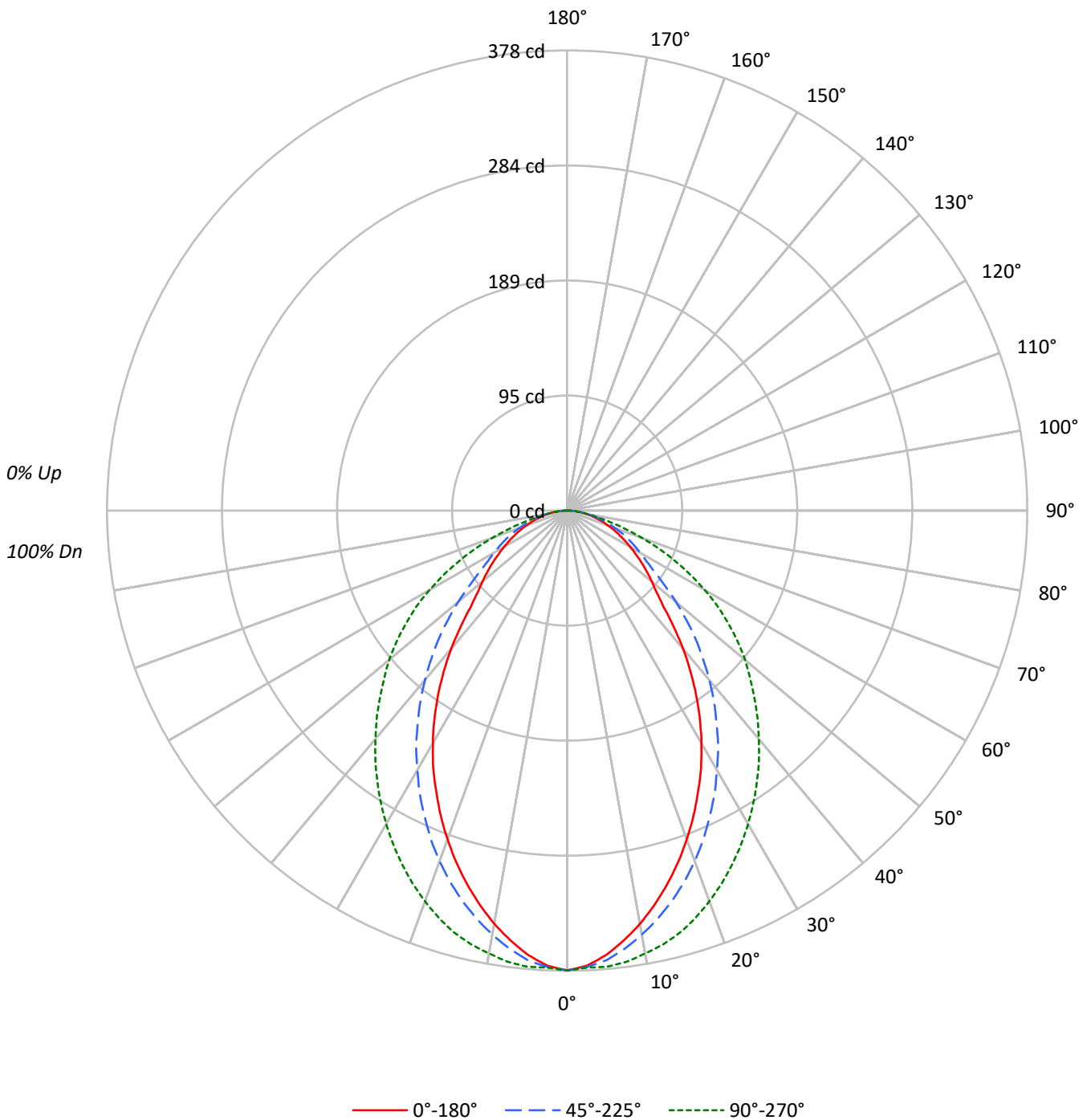
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 711.6 lumens  
Efficiency: N/A  
Efficacy: 60.8 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): 11.7  
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: P1175416

CATALOG NUMBER: S125RDRP-H375D935-X4F0-XX-UDD-WVL-W

### Luminous Intensity Polar Plot





TEST NUMBER: P1175416

CATALOG NUMBER: S125RDRP-H375D935-X4F0-XX-UDD-WVL-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

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

	0°	45°	90°
0°	2601	2601	2601
5°	2533	2562	2599
10°	2410	2473	2583
15°	2265	2368	2558
20°	2105	2246	2502
25°	1934	2104	2436
30°	1754	1955	2363
35°	1552	1798	2285
40°	1331	1634	2202
45°	1093	1455	2117
50°	972	1250	2044
55°	897	1047	1940
60°	826	954	1797
65°	767	899	1588
70°	717	839	1298
75°	673	777	974
80°	634	714	698
85°	585	711	585

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2117 cd/sqm



TEST NUMBER: P1175416

CATALOG NUMBER: S125RDRP-H375D935-X4F0-XX-UDD-WVL-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.0	4.9
10°-20°	94.3	13.2
20°-30°	129.7	18.2
30°-40°	137.5	19.3
40°-50°	120.4	16.9
50°-60°	92.4	13.0
60°-70°	61.5	8.6
70°-80°	31.5	4.4
80°-90°	9.4	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°	258.9	36.4
0°-40°	396.4	55.7
0°-60°	609.2	85.6
0°-90°	711.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	711.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	378	378	378	378	378	
5°	366	371	371	373	376	34
15°	318	325	332	348	359	89
25°	255	263	277	300	321	117
35°	185	193	214	245	272	115
45°	112	122	149	187	217	89
55°	75	76	87	130	162	67
65°	47	48	55	72	98	47
75°	25	27	29	31	37	27
85°	7	8	9	9	7	8
90°	0	0	0	0	0	



TEST NUMBER: P1175416

CATALOG NUMBER: S125RDRP-H375D935-X4F0-XX-UDD-WVL-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	377.7	377.7	377.7	377.7	377.7
2.5°	374.2	378.0	375.2	375.5	375.8
5°	366.5	371.3	370.7	373.2	376.1
7.5°	356.2	361.4	363.0	369.4	373.9
10°	344.7	350.5	353.7	363.3	369.4
12.5°	331.6	338.3	343.4	355.9	364.9
15°	317.8	325.1	332.2	347.9	358.8
17.5°	303.0	310.4	319.7	337.6	350.8
20°	287.3	295.3	306.5	325.8	341.5
22.5°	271.3	279.6	292.4	313.6	331.6
25°	254.6	263.3	277.0	300.5	320.7
27.5°	238.2	246.3	262.3	287.3	309.4
30°	220.6	228.9	245.9	273.5	297.2
32.5°	203.0	211.3	230.9	259.7	284.7
35°	184.7	193.4	213.9	245.3	271.9
37.5°	166.4	175.4	198.2	230.5	258.8
40°	148.1	157.8	181.8	215.8	245.0
42.5°	129.5	139.8	165.1	201.4	231.5
45°	112.2	121.5	149.4	186.6	217.4
47.5°	99.7	105.2	132.7	171.5	203.9
50°	90.7	93.3	116.7	157.1	190.8
52.5°	82.7	84.3	101.0	143.7	176.4
55°	74.7	76.3	87.2	129.5	161.6
57.5°	67.0	68.0	77.0	115.4	146.9
60°	60.0	60.6	69.3	101.3	130.5
62.5°	53.5	53.9	61.9	86.9	114.2
65°	47.1	47.5	55.2	72.5	97.5
67.5°	41.4	41.4	48.7	59.3	81.4
70°	35.6	35.6	41.7	48.1	64.5
72.5°	30.5	31.1	35.3	38.8	50.3
75°	25.3	26.9	29.2	30.8	36.6
77.5°	20.5	22.4	23.4	24.0	24.4
80°	16.0	17.3	18.0	18.3	17.6
82.5°	11.9	12.8	13.1	13.1	12.2
85°	7.4	8.3	9.0	8.7	7.4
87.5°	3.5	4.8	5.1	4.5	3.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1175416

CATALOG NUMBER: S125RDRP-H375D935-X4F0-XX-UDD-WVL-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	9.94	11.44	10.30	11.75	12.06	13.96	15.46	14.33	15.77	16.09
	3H	11.53	12.87	11.90	13.20	13.56	15.35	16.69	15.73	17.02	17.38
	4H	12.17	13.43	12.57	13.78	14.16	15.75	17.01	16.15	17.36	17.74
	6H	12.68	13.84	13.09	14.21	14.60	15.96	17.12	16.37	17.49	17.88
	8H	12.86	13.96	13.28	14.35	14.76	16.02	17.13	16.44	17.52	17.92
	12H	12.98	14.04	13.41	14.43	14.86	16.05	17.11	16.48	17.49	17.92
4H	2H	10.71	11.97	11.11	12.32	12.70	14.09	15.35	14.49	15.70	16.08
	3H	12.49	13.54	12.90	13.94	14.34	15.66	16.71	16.07	17.11	17.51
	4H	13.26	14.20	13.69	14.61	15.05	16.17	17.11	16.60	17.53	17.97
	6H	13.89	14.71	14.35	15.16	15.62	16.50	17.32	16.95	17.76	18.22
	8H	14.12	14.89	14.59	15.33	15.80	16.60	17.36	17.06	17.81	18.27
	12H	14.30	14.98	14.78	15.46	15.93	16.67	17.35	17.15	17.83	18.30
8H	4H	13.64	14.41	14.10	14.85	15.32	16.27	17.04	16.73	17.48	17.95
	6H	14.42	15.05	14.91	15.54	16.02	16.69	17.32	17.19	17.81	18.29
	8H	14.73	15.30	15.25	15.81	16.30	16.85	17.42	17.36	17.93	18.41
	12H	14.99	15.50	15.50	15.99	16.55	16.99	17.49	17.50	17.98	18.55
12H	4H	13.68	14.36	14.16	14.84	15.31	16.27	16.95	16.75	17.43	17.90
	6H	14.49	15.06	15.00	15.57	16.06	16.70	17.27	17.22	17.78	18.27
	8H	14.87	15.38	15.38	15.87	16.43	16.91	17.41	17.42	17.91	18.47