

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: P1061637

Luminaire Tested: S125RDRP-S375D927-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061637  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S375D927-X4F0-XX-UDD-SVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

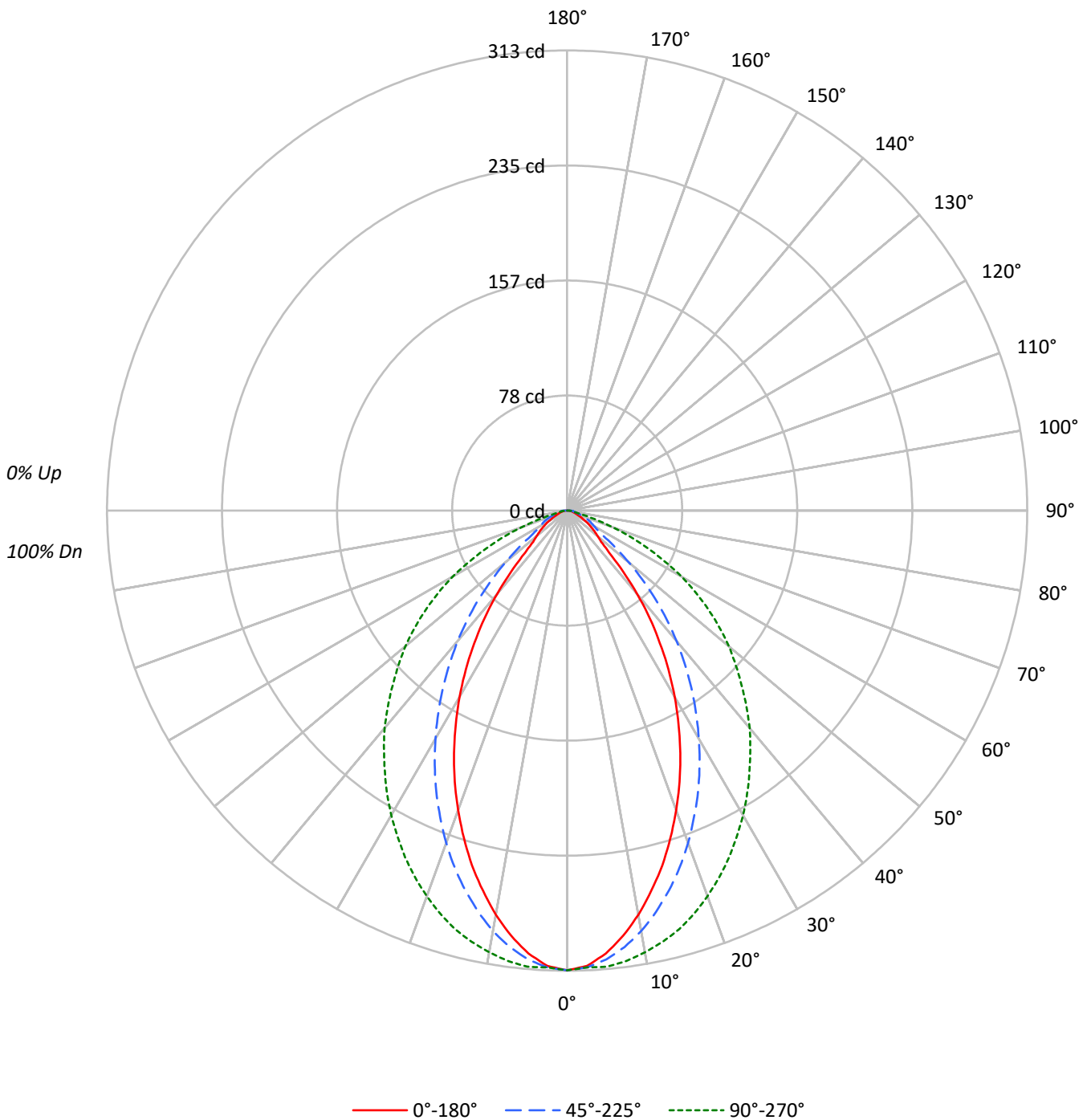
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 452.9 lumens  
Efficiency: N/A  
Efficacy: 36.2 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02  
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

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### Luminous Intensity Polar Plot





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**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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

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

	0°	45°	90°
0°	2153	2153	2153
5°	2090	2118	2152
10°	1951	2030	2132
15°	1781	1907	2101
20°	1588	1763	2045
25°	1383	1601	1979
30°	1162	1424	1903
35°	925	1237	1818
40°	666	1039	1736
45°	394	825	1634
50°	291	587	1538
55°	247	363	1408
60°	201	293	1241
65°	156	270	979
70°	133	234	656
75°	125	202	266
80°	131	210	186
85°	158	316	213

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1634 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.8	6.4
10°-20°	75.7	16.7
20°-30°	98.9	21.8
30°-40°	96.4	21.3
40°-50°	72.3	16.0
50°-60°	45.3	10.0
60°-70°	23.6	5.2
70°-80°	8.5	1.9
80°-90°	3.4	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°	203.4	44.9
0°-40°	299.8	66.2
0°-60°	417.4	92.2
0°-90°	452.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	452.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	313	313	313	313	313	
5°	302	306	306	309	311	28
15°	250	257	268	284	295	70
25°	182	192	211	239	260	83
35°	110	122	147	186	216	68
45°	40	52	85	131	168	34
55°	21	22	30	79	117	18
65°	10	10	17	32	60	10
75°	5	6	8	8	10	5
85°	2	3	4	4	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	312.7	312.7	312.7	312.7	312.7
2.5°	310.0	313.0	311.0	311.0	311.0
5°	302.4	306.4	306.4	308.7	311.4
7.5°	291.8	296.4	299.4	305.0	309.0
10°	279.1	284.8	290.4	299.7	305.0
12.5°	264.8	271.5	279.5	292.4	300.4
15°	249.9	257.2	267.5	284.1	294.7
17.5°	233.6	242.2	254.5	274.5	287.4
20°	216.7	225.3	240.6	263.2	279.1
22.5°	199.7	209.0	225.6	251.2	270.2
25°	182.1	192.1	210.7	239.3	260.5
27.5°	164.2	174.5	195.1	227.0	249.9
30°	146.2	156.8	179.1	213.7	239.3
32.5°	128.3	139.6	163.2	200.0	228.0
35°	110.0	121.6	147.2	186.4	216.3
37.5°	92.4	104.0	131.3	172.5	204.7
40°	74.1	86.7	115.6	158.5	193.1
42.5°	56.2	69.1	100.0	144.5	180.4
45°	40.5	52.5	84.7	130.9	167.8
47.5°	31.2	37.9	69.1	117.0	155.5
50°	27.2	29.2	54.8	104.0	143.6
52.5°	23.6	24.9	41.2	92.0	130.6
55°	20.6	21.6	30.2	79.1	117.3
57.5°	17.3	18.6	23.9	66.5	103.7
60°	14.6	15.3	21.3	54.8	90.1
62.5°	12.0	12.6	18.9	43.2	74.8
65°	9.6	10.3	16.6	31.9	60.1
67.5°	8.0	8.3	14.0	22.6	46.2
70°	6.6	7.0	11.6	15.6	32.6
72.5°	5.6	6.6	9.3	11.3	20.6
75°	4.7	6.3	7.6	8.0	10.0
77.5°	4.0	6.0	6.3	6.3	5.6
80°	3.3	5.0	5.3	5.0	4.7
82.5°	2.7	4.0	4.3	4.3	3.7
85°	2.0	3.3	4.0	3.7	2.7
87.5°	1.3	3.0	3.3	3.0	2.0
90°	0.0	0.0	0.0	0.0	0.0



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**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	2.58	3.93	2.95	4.25	4.56	12.20	13.55	12.56	13.86	14.18
	3H	3.44	4.64	3.82	4.97	5.33	13.04	14.24	13.42	14.57	14.93
	4H	3.86	4.98	4.27	5.33	5.72	13.11	14.23	13.52	14.58	14.97
	6H	4.29	5.32	4.71	5.69	6.08	13.10	14.12	13.51	14.49	14.89
	8H	4.47	5.45	4.90	5.84	6.24	13.08	14.06	13.51	14.45	14.85
	12H	4.64	5.57	5.07	5.95	6.38	13.07	14.01	13.50	14.39	14.82
4H	2H	3.54	4.66	3.94	5.01	5.39	12.06	13.18	12.46	13.53	13.91
	3H	4.59	5.51	5.01	5.91	6.32	12.97	13.89	13.38	14.29	14.69
	4H	5.16	5.98	5.59	6.39	6.84	13.07	13.89	13.51	14.31	14.75
	6H	5.76	6.47	6.22	6.91	7.38	13.10	13.81	13.56	14.25	14.72
	8H	6.00	6.66	6.47	7.11	7.58	13.10	13.76	13.57	14.21	14.68
	12H	6.23	6.81	6.71	7.30	7.77	13.12	13.70	13.60	14.18	14.66
8H	4H	5.63	6.29	6.09	6.73	7.20	13.00	13.66	13.47	14.11	14.58
	6H	6.44	6.98	6.94	7.48	7.96	13.05	13.59	13.55	14.09	14.57
	8H	6.83	7.31	7.35	7.83	8.32	13.09	13.57	13.61	14.09	14.58
	12H	7.22	7.65	7.73	8.14	8.71	13.15	13.58	13.67	14.08	14.65
12H	4H	5.68	6.26	6.16	6.75	7.22	12.96	13.55	13.45	14.03	14.51
	6H	6.56	7.05	7.08	7.57	8.06	13.02	13.50	13.54	14.02	14.51
	8H	7.06	7.49	7.57	7.98	8.55	13.09	13.52	13.60	14.01	14.58