

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: P1058076

Luminaire Tested: S122RDRP-S675D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1058076  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-55 )  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDRP-S675D927-X4F0-XX-UDD-WVL-W  
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

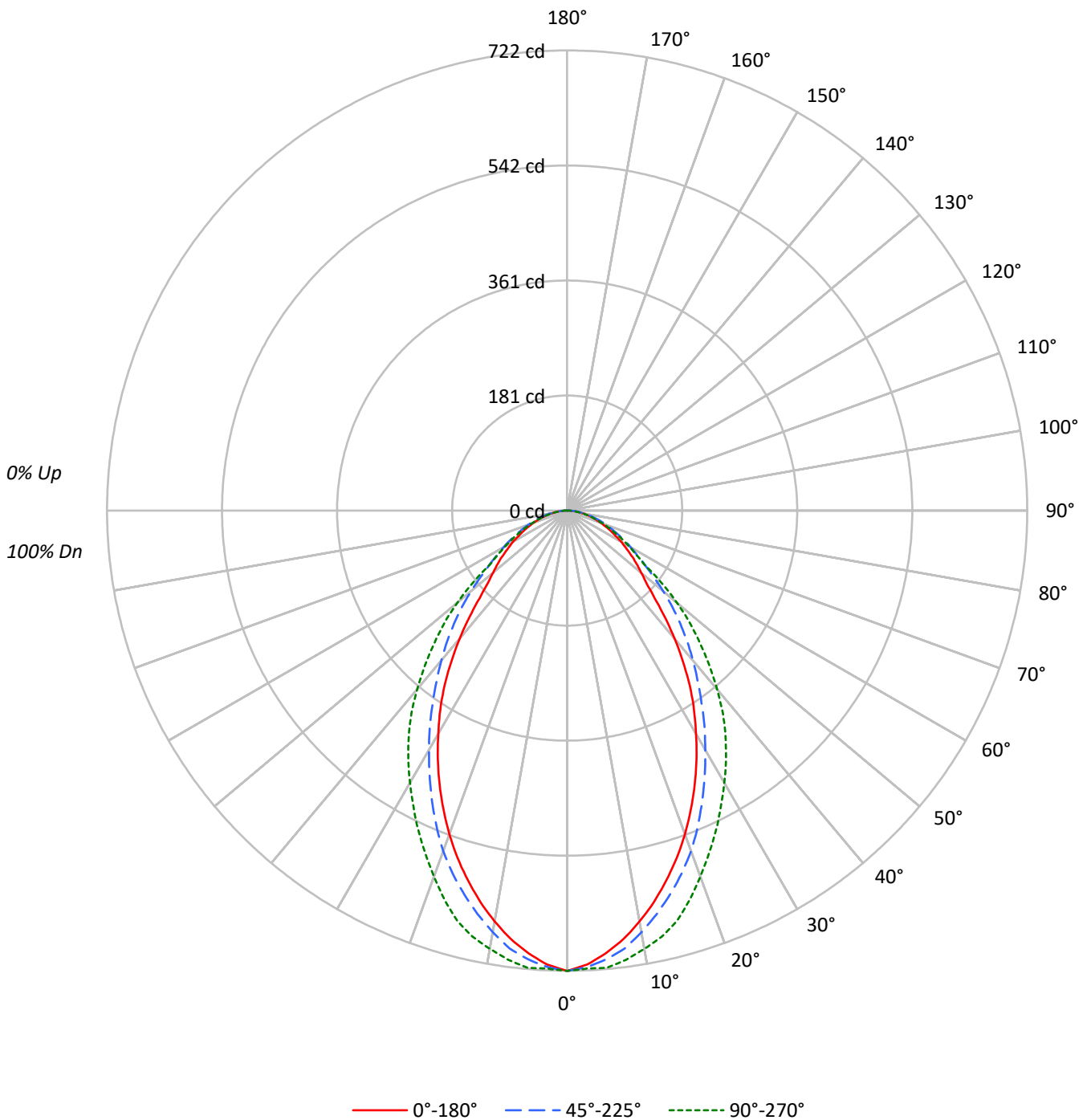
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1177.5 lumens  
Efficiency: N/A  
Efficacy: 45.6 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 25.8  
Input Voltage (V): 120  
Input Current (Ain): 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	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	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89					87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78					76				
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	68					67				
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61					59				
5	81	70	62	56	80	69	62	56	67	60	55	65	59	55	63	58	54					52				
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49					47				
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44					43				
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41					39				
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37					36				
10	59	47	40	35	58	46	40	35	46	39	35	45	39	35	44	38	34					33				

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

	0°	45°	90°
0°	13328	13328	13328
5°	12918	13090	13335
10°	12267	12588	13082
15°	11483	11913	12731
20°	10614	11163	12002
25°	9647	10215	11259
30°	8621	9234	10509
35°	7558	8276	9763
40°	6323	7390	8811
45°	5068	6547	7701
50°	4346	5641	6465
55°	3973	4797	4771
60°	3613	4240	4155
65°	3288	3799	3628
70°	3016	3480	3226
75°	2823	3208	2823
80°	2646	2975	2476
85°	2625	3133	2138

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7701 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.7	5.7
10°-20°	176.5	15.0
20°-30°	232.8	19.8
30°-40°	234.5	19.9
40°-50°	190.8	16.2
50°-60°	130.1	11.0
60°-70°	84.4	7.2
70°-80°	46.5	3.9
80°-90°	15.2	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°	476.0	40.4
0°-40°	710.5	60.3
0°-60°	1031.4	87.6
0°-90°	1177.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1177.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	722	722	722	722	722	
5°	697	711	707	713	720	65
15°	601	617	624	649	666	168
25°	474	489	502	524	553	217
35°	336	353	367	399	433	208
45°	194	218	251	273	295	153
55°	124	136	149	150	148	111
65°	75	89	87	82	83	75
75°	40	49	45	40	40	42
85°	12	16	15	12	10	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	722.3	722.3	722.3	722.3	722.3
2.5°	713.0	724.6	716.8	717.6	719.2
5°	697.4	710.6	706.7	713.0	719.9
7.5°	678.0	691.2	692.8	702.1	710.6
10°	654.7	669.5	671.8	685.8	698.2
12.5°	629.1	645.4	648.5	668.7	685.0
15°	601.1	616.7	623.6	649.3	666.4
17.5°	571.6	586.4	597.2	620.5	640.0
20°	540.5	554.5	568.5	589.5	611.2
22.5°	507.1	522.7	535.9	556.9	581.7
25°	473.8	489.3	501.7	524.2	553.0
27.5°	439.6	455.1	467.5	491.6	522.7
30°	404.6	420.9	433.4	460.5	493.2
32.5°	370.5	386.8	400.7	429.5	463.7
35°	335.5	352.6	367.4	399.2	433.4
37.5°	298.2	317.6	336.3	368.1	401.5
40°	262.5	284.3	306.8	336.3	365.8
42.5°	226.8	250.9	278.8	303.7	330.8
45°	194.2	218.2	250.9	272.6	295.1
47.5°	168.5	188.7	223.7	241.5	261.7
50°	151.4	165.4	196.5	210.5	225.2
52.5°	137.5	149.1	170.9	180.2	187.9
55°	123.5	135.9	149.1	149.9	148.3
57.5°	109.5	123.5	130.5	125.0	128.1
60°	97.9	111.8	114.9	109.5	112.6
62.5°	85.4	101.0	101.0	95.5	97.1
65°	75.3	89.3	87.0	82.3	83.1
67.5°	65.2	79.2	75.3	70.7	70.7
70°	55.9	69.1	64.5	59.8	59.8
72.5°	47.4	58.2	55.1	49.7	48.9
75°	39.6	48.9	45.0	40.4	39.6
77.5°	31.8	39.6	36.5	32.6	31.1
80°	24.9	31.8	28.0	24.9	23.3
82.5°	18.6	24.1	21.0	17.9	16.3
85°	12.4	16.3	14.8	11.6	10.1
87.5°	6.2	10.9	9.3	7.8	6.2
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	15.72	17.16	16.08	17.47	17.78	15.96	17.40	16.33	17.71	18.03
	3H	17.24	18.53	17.62	18.86	19.22	17.32	18.61	17.70	18.94	19.30
	4H	17.81	19.01	18.21	19.36	19.74	17.80	19.01	18.20	19.36	19.74
	6H	18.23	19.34	18.64	19.71	20.10	18.15	19.26	18.56	19.63	20.02
	8H	18.38	19.44	18.81	19.83	20.23	18.26	19.32	18.69	19.71	20.11
	12H	18.50	19.51	18.93	19.89	20.32	18.33	19.34	18.76	19.72	20.15
4H	2H	16.29	17.49	16.69	17.84	18.22	16.49	17.69	16.89	18.04	18.42
	3H	18.09	19.09	18.50	19.49	19.89	18.06	19.06	18.47	19.46	19.86
	4H	18.83	19.73	19.27	20.15	20.59	18.66	19.55	19.09	19.97	20.41
	6H	19.42	20.20	19.88	20.64	21.11	19.13	19.91	19.58	20.35	20.81
	8H	19.63	20.36	20.10	20.80	21.27	19.28	20.00	19.74	20.45	20.92
	12H	19.79	20.44	20.28	20.92	21.40	19.38	20.03	19.87	20.51	20.99
8H	4H	19.10	19.83	19.56	20.27	20.74	18.95	19.68	19.41	20.12	20.59
	6H	19.85	20.46	20.35	20.95	21.43	19.54	20.14	20.04	20.63	21.11
	8H	20.18	20.72	20.70	21.23	21.72	19.76	20.30	20.28	20.81	21.30
	12H	20.46	20.94	20.97	21.43	22.00	19.94	20.42	20.45	20.91	21.48
12H	4H	19.11	19.76	19.60	20.24	20.71	18.98	19.63	19.46	20.11	20.58
	6H	19.90	20.44	20.42	20.95	21.44	19.61	20.15	20.12	20.66	21.15
	8H	20.30	20.77	20.81	21.27	21.83	19.89	20.37	20.40	20.86	21.43