

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: P1058091

Luminaire Tested: S122RDRP-S675D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1058091  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDRP-S675D935-X4F0-XX-UDD-SVL-W  
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

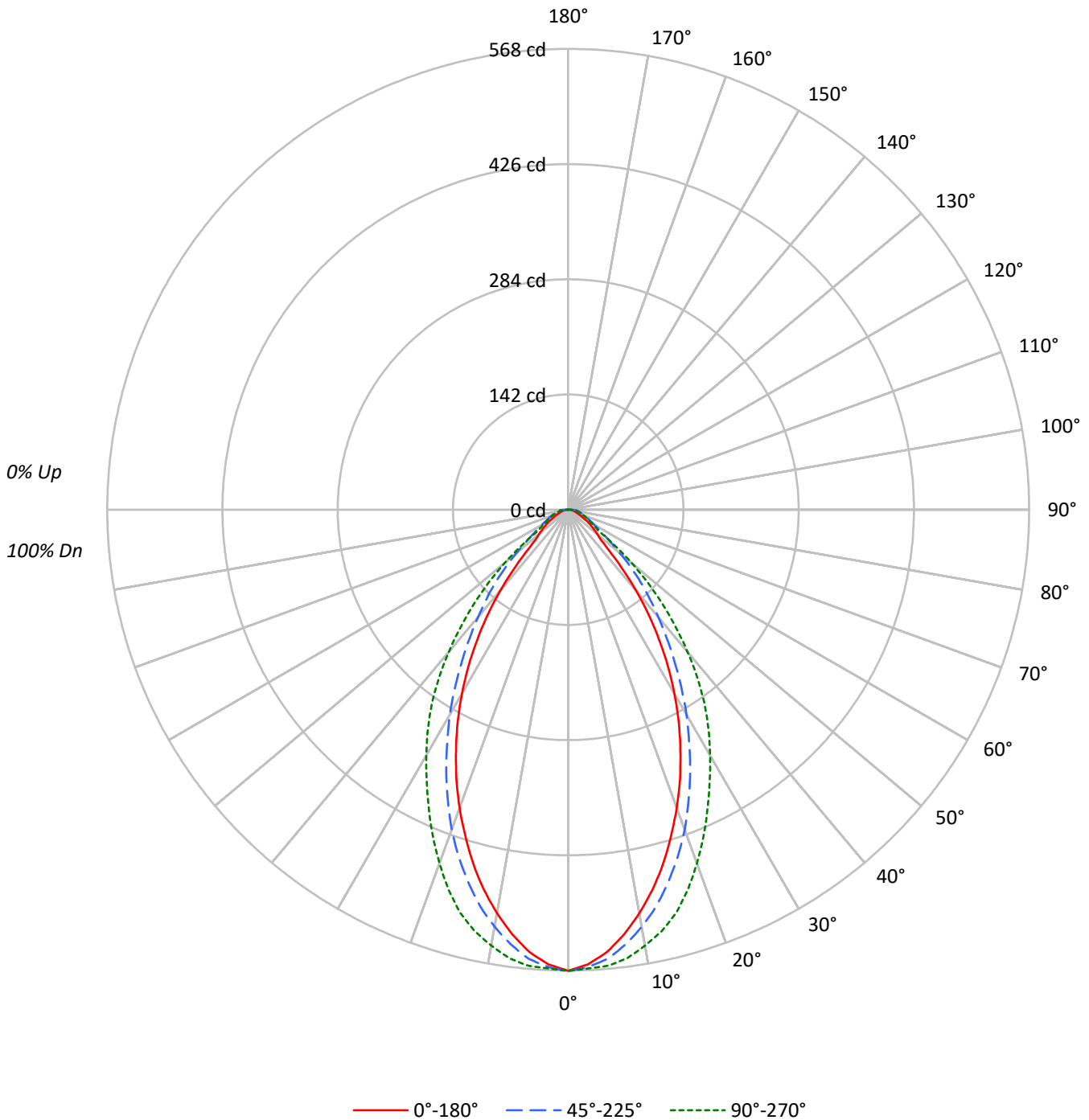
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 689.5 lumens  
Efficiency: N/A  
Efficacy: 26.7 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95  
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 (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	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

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

	0°	45°	90°
0°	10488	10488	10488
5°	10138	10295	10451
10°	9464	9781	10223
15°	8633	9084	9827
20°	7680	8243	9106
25°	6656	7240	8272
30°	5578	6209	7451
35°	4395	5138	6602
40°	3134	4150	5514
45°	1850	3285	4277
50°	1335	2377	2911
55°	1113	1711	1467
60°	904	1373	1247
65°	738	1218	1144
70°	637	1187	1095
75°	599	1205	1084
80°	627	1435	1169
85°	889	2329	1440

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4277 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.1	7.6
10°-20°	134.0	19.4
20°-30°	165.2	24.0
30°-40°	147.0	21.3
40°-50°	93.8	13.6
50°-60°	45.1	6.5
60°-70°	26.4	3.8
70°-80°	16.9	2.4
80°-90°	9.0	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°	351.3	51.0
0°-40°	498.3	72.3
0°-60°	637.2	92.4
0°-90°	689.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	689.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	547	558	556	559	564	51
15°	452	463	476	498	514	126
25°	327	340	356	381	406	150
35°	195	210	228	263	293	121
45°	71	92	126	146	164	60
55°	35	45	53	52	46	31
65°	17	30	28	25	26	17
75°	8	19	17	16	15	9
85°	4	10	11	9	7	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	568.4	568.4	568.4	568.4	568.4
2.5°	560.8	570.1	564.2	564.2	565.9
5°	547.3	557.5	555.8	559.1	564.2
7.5°	527.9	538.9	540.6	549.9	557.5
10°	505.1	516.9	522.0	535.5	545.6
12.5°	479.8	491.6	500.9	517.8	532.1
15°	451.9	462.9	475.5	497.5	514.4
17.5°	421.5	435.8	448.5	471.3	490.7
20°	391.1	404.6	419.8	441.7	463.7
22.5°	359.8	372.5	387.7	410.5	435.8
25°	326.9	339.5	355.6	380.9	406.3
27.5°	294.8	307.4	322.7	350.5	377.6
30°	261.8	274.5	291.4	320.1	349.7
32.5°	228.9	242.4	259.3	290.6	321.8
35°	195.1	210.3	228.1	262.7	293.1
37.5°	162.2	177.4	199.3	233.1	261.8
40°	130.1	147.8	172.3	202.7	228.9
42.5°	98.8	118.2	148.7	173.1	196.0
45°	70.9	92.1	125.9	146.1	163.9
47.5°	54.1	69.3	103.9	119.9	132.6
50°	46.5	55.7	82.8	94.6	101.4
52.5°	40.5	49.0	65.9	71.8	71.8
55°	34.6	44.8	53.2	51.5	45.6
57.5°	29.6	40.5	43.9	37.2	38.9
60°	24.5	37.2	37.2	32.9	33.8
62.5°	20.3	34.6	32.1	28.7	29.6
65°	16.9	30.4	27.9	25.3	26.2
67.5°	13.5	27.0	24.5	22.8	22.8
70°	11.8	24.5	22.0	20.3	20.3
72.5°	10.1	21.1	19.4	17.7	17.7
75°	8.4	18.6	16.9	16.0	15.2
77.5°	7.6	16.0	15.2	13.5	12.7
80°	5.9	13.5	13.5	12.7	11.0
82.5°	5.1	11.8	11.8	11.0	9.3
85°	4.2	10.1	11.0	9.3	6.8
87.5°	3.4	9.3	9.3	7.6	5.1
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	9.83	11.11	10.20	11.42	11.74	9.63	10.91	10.00	11.22	11.54
	3H	11.06	12.20	11.44	12.53	12.89	11.22	12.36	11.61	12.69	13.06
	4H	11.52	12.57	11.92	12.93	13.31	11.94	13.00	12.34	13.35	13.73
	6H	11.90	12.87	12.31	13.24	13.63	12.59	13.57	13.01	13.94	14.33
	8H	12.05	12.97	12.48	13.36	13.77	12.92	13.84	13.35	14.24	14.64
	12H	12.21	13.09	12.64	13.47	13.90	13.22	14.10	13.65	14.49	14.92
4H	2H	10.38	11.44	10.79	11.79	12.18	10.23	11.29	10.63	11.64	12.02
	3H	12.08	12.95	12.49	13.35	13.76	12.06	12.93	12.47	13.34	13.74
	4H	12.87	13.66	13.31	14.08	14.52	12.93	13.71	13.37	14.13	14.58
	6H	13.52	14.19	13.98	14.64	15.11	13.78	14.46	14.24	14.90	15.37
	8H	13.77	14.40	14.24	14.85	15.32	14.20	14.84	14.67	15.28	15.76
	12H	14.01	14.57	14.50	15.05	15.53	14.61	15.17	15.09	15.65	16.13
8H	4H	13.29	13.93	13.76	14.37	14.84	13.35	13.98	13.82	14.43	14.90
	6H	14.27	14.79	14.77	15.28	15.76	14.44	14.96	14.94	15.45	15.93
	8H	14.76	15.23	15.28	15.74	16.23	15.03	15.50	15.55	16.01	16.50
	12H	15.26	15.67	15.77	16.17	16.74	15.63	16.05	16.15	16.54	17.11
12H	4H	13.36	13.92	13.85	14.40	14.88	13.42	13.98	13.91	14.47	14.94
	6H	14.44	14.90	14.96	15.42	15.91	14.60	15.07	15.12	15.58	16.07
	8H	15.07	15.48	15.59	15.98	16.55	15.31	15.73	15.83	16.22	16.79