

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: P1058094

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1058094  
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-S675D935-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

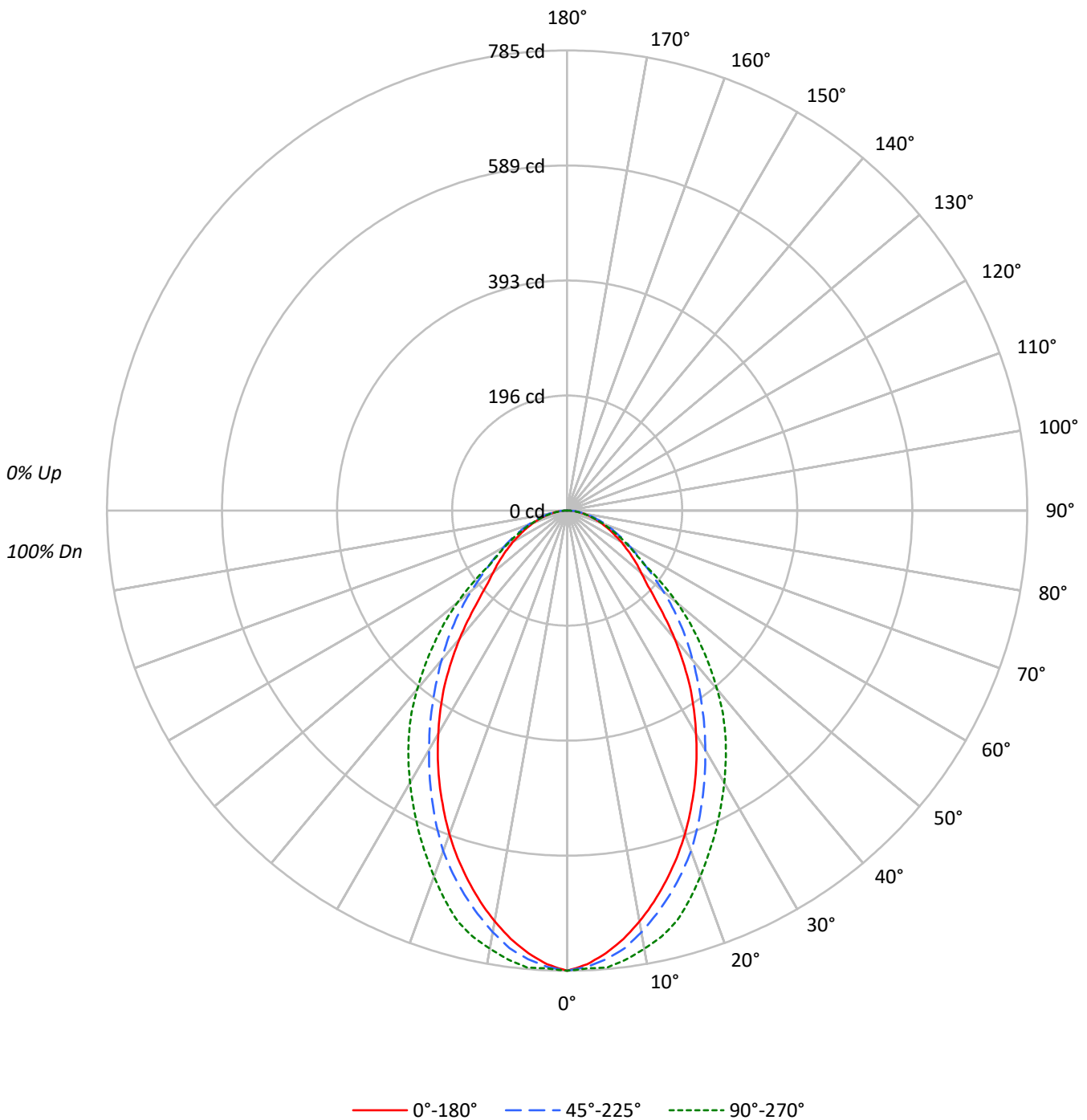
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1279.8 lumens  
Efficiency: N/A  
Efficacy: 49.6 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 (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	110	106	103	100	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°	14485	14485	14485
5°	14040	14227	14494
10°	13333	13682	14220
15°	12480	12948	13835
20°	11537	12134	13045
25°	10483	11102	12236
30°	9371	10036	11421
35°	8215	8995	10610
40°	6872	8031	9577
45°	5506	7114	8372
50°	4725	6132	7027
55°	4317	5215	5186
60°	3927	4609	4517
65°	3576	4126	3943
70°	3280	3782	3507
75°	3066	3493	3066
80°	2869	3230	2688
85°	2858	3387	2329

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 8372 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.5	5.7
10°-20°	191.9	15.0
20°-30°	253.1	19.8
30°-40°	254.8	19.9
40°-50°	207.4	16.2
50°-60°	141.4	11.0
60°-70°	91.8	7.2
70°-80°	50.5	3.9
80°-90°	16.5	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°	517.4	40.4
0°-40°	772.2	60.3
0°-60°	1121.0	87.6
0°-90°	1279.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1279.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	785	785	785	785	785	
5°	758	772	768	775	782	71
15°	653	670	678	706	724	183
25°	515	532	545	570	601	236
35°	365	383	399	434	471	226
45°	211	237	273	296	321	166
55°	134	148	162	163	161	120
65°	82	97	94	90	90	81
75°	43	53	49	44	43	46
85°	14	18	16	13	11	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	785.0	785.0	785.0	785.0	785.0
2.5°	774.9	787.6	779.1	780.0	781.6
5°	758.0	772.4	768.1	774.9	782.5
7.5°	736.9	751.3	752.9	763.1	772.4
10°	711.6	727.6	730.2	745.3	758.9
12.5°	683.7	701.5	704.8	726.8	744.5
15°	653.3	670.2	677.8	705.7	724.2
17.5°	621.3	637.3	649.1	674.4	695.5
20°	587.5	602.7	617.9	640.7	664.3
22.5°	551.2	568.1	582.4	605.2	632.2
25°	514.9	531.8	545.3	569.8	601.0
27.5°	477.8	494.6	508.2	534.3	568.1
30°	439.8	457.5	471.0	500.6	536.0
32.5°	402.6	420.4	435.6	466.8	503.9
35°	364.7	383.2	399.3	433.9	471.0
37.5°	324.1	345.2	365.5	400.1	436.4
40°	285.3	308.9	333.4	365.5	397.6
42.5°	246.5	272.6	303.0	330.0	359.6
45°	211.0	237.2	272.6	296.3	320.8
47.5°	183.2	205.1	243.1	262.5	284.5
50°	164.6	179.8	213.6	228.8	244.8
52.5°	149.4	162.1	185.7	195.8	204.3
55°	134.2	147.7	162.1	162.9	161.2
57.5°	119.0	134.2	141.8	135.9	139.3
60°	106.4	121.6	124.9	119.0	122.4
62.5°	92.9	109.7	109.7	103.8	105.5
65°	81.9	97.1	94.5	89.5	90.3
67.5°	70.9	86.1	81.9	76.8	76.8
70°	60.8	75.1	70.1	65.0	65.0
72.5°	51.5	63.3	59.9	54.0	53.2
75°	43.0	53.2	49.0	43.9	43.0
77.5°	34.6	43.0	39.7	35.5	33.8
80°	27.0	34.6	30.4	27.0	25.3
82.5°	20.3	26.2	22.8	19.4	17.7
85°	13.5	17.7	16.0	12.7	11.0
87.5°	6.8	11.8	10.1	8.4	6.8
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	16.01	17.44	16.37	17.76	18.07	16.25	17.69	16.62	18.01	18.32
	3H	17.53	18.82	17.91	19.15	19.51	17.61	18.90	17.99	19.23	19.59
	4H	18.10	19.30	18.50	19.65	20.03	18.09	19.30	18.49	19.65	20.03
	6H	18.52	19.63	18.93	20.00	20.39	18.44	19.55	18.85	19.92	20.31
	8H	18.67	19.73	19.10	20.12	20.52	18.55	19.61	18.98	20.00	20.40
	12H	18.79	19.80	19.22	20.18	20.61	18.62	19.63	19.05	20.01	20.44
4H	2H	16.58	17.78	16.98	18.13	18.51	16.78	17.98	17.18	18.33	18.71
	3H	18.38	19.38	18.79	19.78	20.18	18.35	19.35	18.76	19.75	20.15
	4H	19.12	20.02	19.56	20.44	20.88	18.95	19.84	19.38	20.26	20.70
	6H	19.71	20.49	20.17	20.93	21.40	19.41	20.19	19.87	20.64	21.10
	8H	19.92	20.65	20.39	21.09	21.56	19.56	20.29	20.03	20.74	21.21
	12H	20.09	20.73	20.57	21.21	21.69	19.67	20.32	20.16	20.80	21.27
8H	4H	19.39	20.12	19.85	20.56	21.03	19.24	19.97	19.70	20.41	20.88
	6H	20.14	20.75	20.64	21.24	21.72	19.83	20.43	20.33	20.92	21.40
	8H	20.47	21.01	20.99	21.52	22.01	20.05	20.59	20.57	21.10	21.59
	12H	20.75	21.23	21.26	21.72	22.29	20.23	20.71	20.74	21.20	21.77
12H	4H	19.40	20.05	19.89	20.53	21.00	19.27	19.92	19.75	20.40	20.87
	6H	20.19	20.73	20.71	21.24	21.73	19.89	20.44	20.41	20.95	21.44
	8H	20.59	21.06	21.10	21.56	22.12	20.18	20.66	20.69	21.15	21.72