

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: P1057848

Luminaire Tested: S122RDRP-S1005D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1057848
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-S1005D935-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

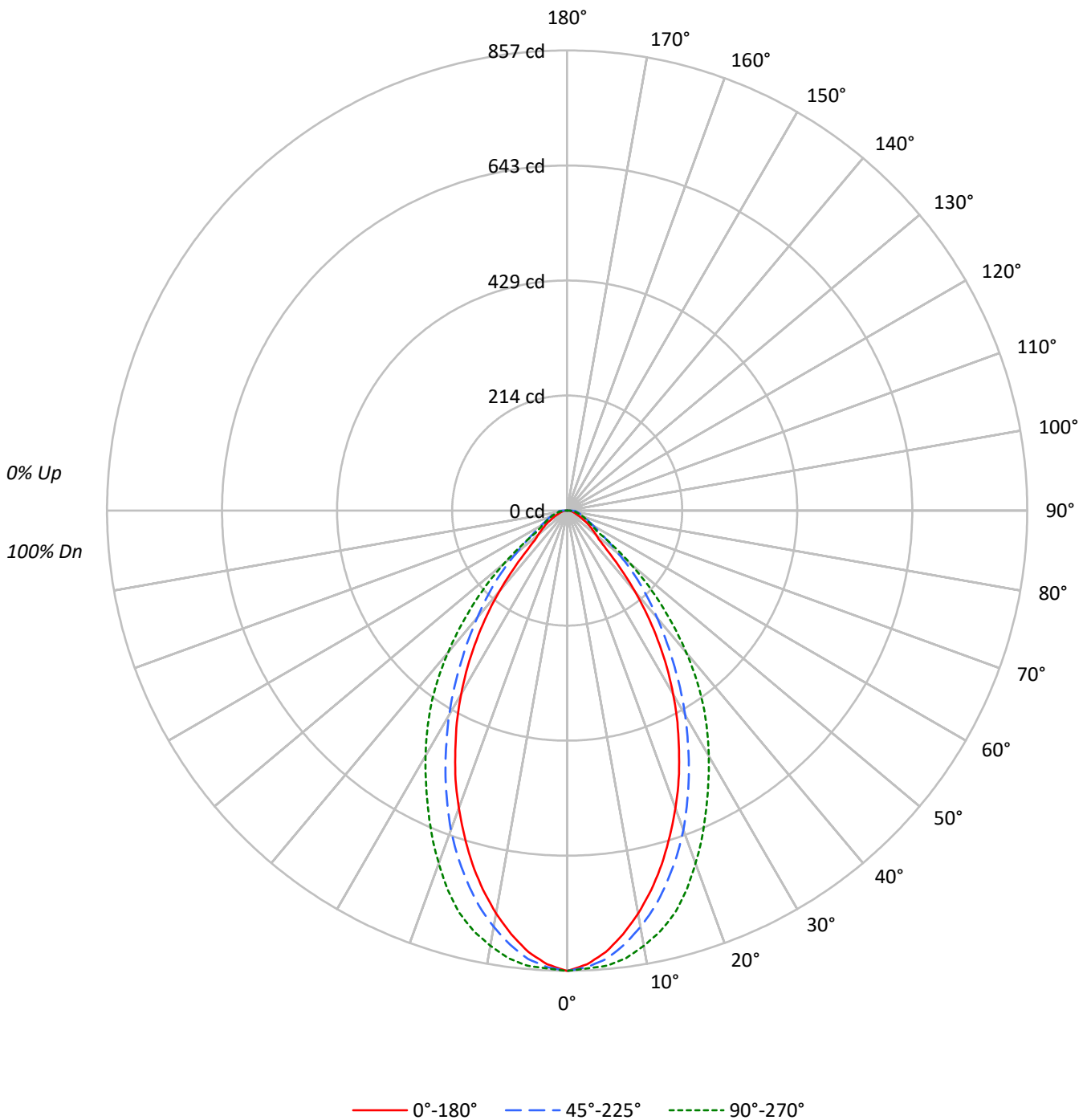
Lumens per Lamp: N/A
Luminaire Lumens: 1039.9 lumens
Efficiency: N/A
Efficacy: 24.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (A_{in}): 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°	15819	15819	15819
5°	15289	15526	15761
10°	14274	14750	15419
15°	13019	13701	14820
20°	11582	12432	13732
25°	10038	10919	12475
30°	8414	9364	11237
35°	6629	7747	9957
40°	4726	6260	8315
45°	2792	4953	6448
50°	2012	3583	4389
55°	1679	2583	2213
60°	1362	2067	1882
65°	1113	1834	1725
70°	960	1786	1651
75°	905	1818	1633
80°	946	2168	1764
85°	1355	3515	2160

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6448 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	7.6
10°-20°	202.0	19.4
20°-30°	249.2	24.0
30°-40°	221.7	21.3
40°-50°	141.5	13.6
50°-60°	67.9	6.5
60°-70°	39.9	3.8
70°-80°	25.5	2.4
80°-90°	13.6	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°	529.8	51.0
0°-40°	751.5	72.3
0°-60°	960.9	92.4
0°-90°	1039.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1039.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	825	841	838	843	851	77
15°	682	698	717	750	776	190
25°	493	512	536	574	613	226
35°	294	317	344	396	442	183
45°	107	139	190	220	247	90
55°	52	68	80	78	69	47
65°	26	46	42	38	40	26
75°	13	28	26	24	23	14
85°	6	15	17	14	10	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	857.3	857.3	857.3	857.3	857.3
2.5°	845.8	859.8	850.9	850.9	853.5
5°	825.4	840.7	838.2	843.3	850.9
7.5°	796.1	812.7	815.3	829.3	840.7
10°	761.8	779.6	787.2	807.6	822.9
12.5°	723.5	741.4	755.4	780.9	802.5
15°	681.5	698.1	717.2	750.3	775.8
17.5°	635.6	657.3	676.4	710.8	740.1
20°	589.8	610.2	633.1	666.2	699.3
22.5°	542.7	561.8	584.7	619.1	657.3
25°	493.0	512.1	536.3	574.5	612.7
27.5°	444.6	463.7	486.6	528.6	569.4
30°	394.9	414.0	439.5	482.8	527.4
32.5°	345.2	365.6	391.1	438.2	485.3
35°	294.3	317.2	343.9	396.2	442.0
37.5°	244.6	267.5	300.6	351.6	394.9
40°	196.2	222.9	259.9	305.7	345.2
42.5°	149.0	178.3	224.2	261.1	295.5
45°	107.0	138.8	189.8	220.4	247.1
47.5°	81.5	104.5	156.7	180.9	200.0
50°	70.1	84.1	124.8	142.7	152.9
52.5°	61.1	73.9	99.4	108.3	108.3
55°	52.2	67.5	80.3	77.7	68.8
57.5°	44.6	61.1	66.2	56.0	58.6
60°	36.9	56.0	56.0	49.7	51.0
62.5°	30.6	52.2	48.4	43.3	44.6
65°	25.5	45.9	42.0	38.2	39.5
67.5°	20.4	40.8	36.9	34.4	34.4
70°	17.8	36.9	33.1	30.6	30.6
72.5°	15.3	31.8	29.3	26.8	26.8
75°	12.7	28.0	25.5	24.2	22.9
77.5°	11.5	24.2	22.9	20.4	19.1
80°	8.9	20.4	20.4	19.1	16.6
82.5°	7.6	17.8	17.8	16.6	14.0
85°	6.4	15.3	16.6	14.0	10.2
87.5°	5.1	14.0	14.0	11.5	7.6
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	11.26	12.54	11.63	12.85	13.17	11.05	12.33	11.42	12.64	12.96
	3H	12.49	13.63	12.87	13.96	14.32	12.65	13.78	13.03	14.11	14.48
	4H	12.95	14.00	13.35	14.36	14.74	13.36	14.42	13.77	14.77	15.16
	6H	13.33	14.30	13.74	14.67	15.07	14.02	14.99	14.43	15.36	15.76
	8H	13.48	14.40	13.91	14.79	15.20	14.35	15.27	14.78	15.66	16.06
	12H	13.64	14.52	14.07	14.90	15.33	14.64	15.53	15.08	15.91	16.34
4H	2H	11.81	12.87	12.21	13.22	13.60	11.64	12.70	12.05	13.05	13.44
	3H	13.51	14.38	13.92	14.78	15.18	13.48	14.36	13.90	14.76	15.16
	4H	14.30	15.08	14.73	15.50	15.94	14.36	15.14	14.79	15.56	16.00
	6H	14.94	15.62	15.41	16.07	16.54	15.20	15.88	15.67	16.33	16.79
	8H	15.19	15.83	15.66	16.27	16.74	15.63	16.26	16.10	16.71	17.18
	12H	15.44	16.00	15.93	16.48	16.96	16.03	16.59	16.52	17.07	17.55
8H	4H	14.72	15.35	15.19	15.80	16.27	14.78	15.41	15.24	15.86	16.33
	6H	15.70	16.22	16.20	16.71	17.20	15.86	16.38	16.36	16.88	17.36
	8H	16.19	16.65	16.71	17.17	17.66	16.46	16.92	16.98	17.44	17.93
	12H	16.69	17.10	17.21	17.60	18.17	17.06	17.47	17.57	17.96	18.54
12H	4H	14.79	15.35	15.27	15.83	16.30	14.85	15.41	15.34	15.89	16.37
	6H	15.87	16.33	16.39	16.85	17.34	16.03	16.49	16.55	17.01	17.50
	8H	16.50	16.91	17.02	17.41	17.98	16.74	17.15	17.25	17.65	18.22