

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: P1057829

Luminaire Tested: S122RDRP-S1005D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1057829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-59)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S1005D927-X4F0-XX-UDD-SVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

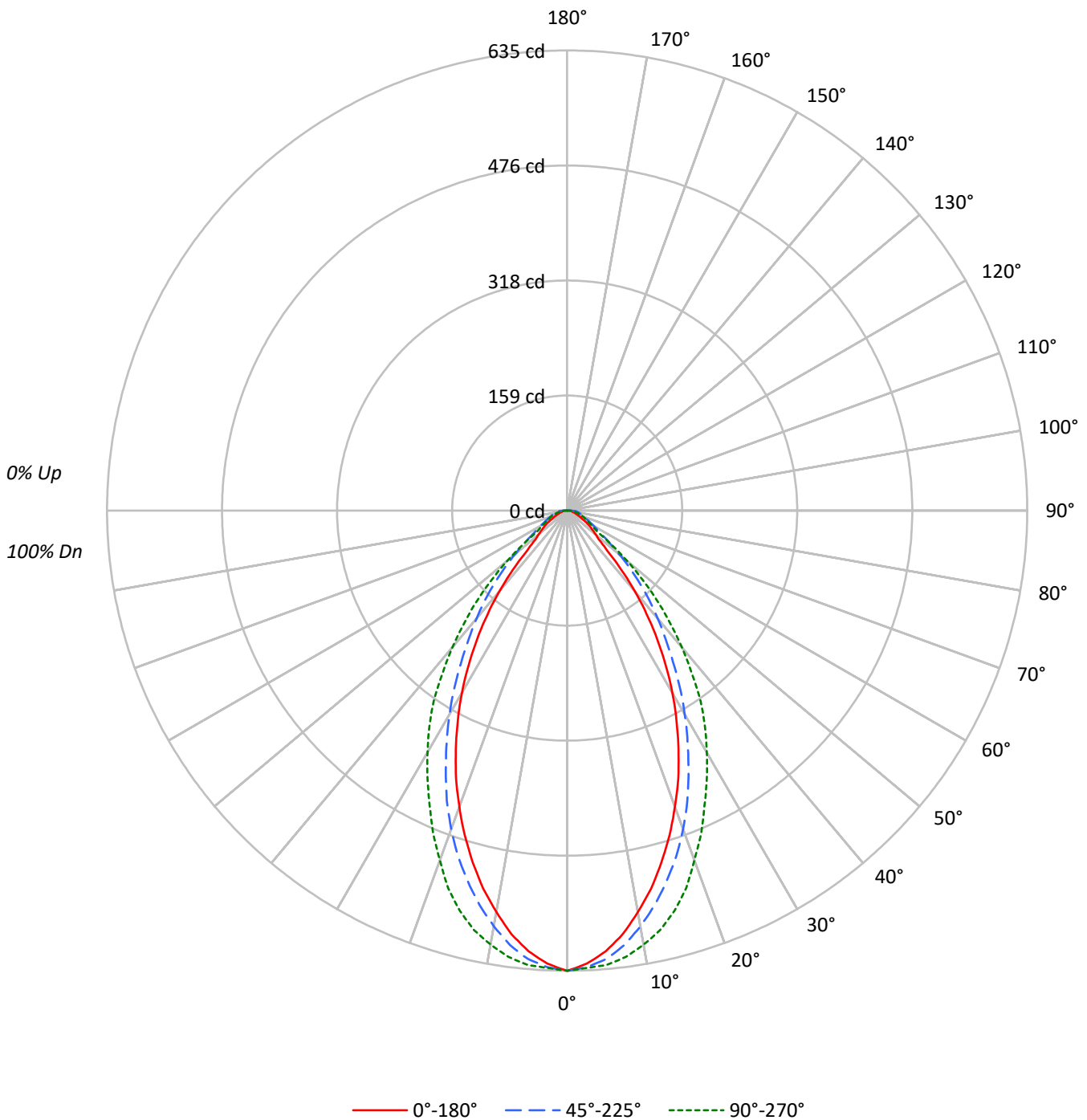
Lumens per Lamp: N/A
Luminaire Lumens: 766.2 lumens
Efficiency: N/A
Efficacy: 18.3 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	101	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	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	66	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	44	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°	11719	11719	11719
5°	11308	11505	11656
10°	10540	10913	11396
15°	9603	10119	10925
20°	8538	9182	10080
25°	7397	8065	9138
30°	6192	6916	8214
35°	4884	5728	7233
40°	3500	4685	5928
45°	2049	3700	4588
50°	1481	2690	3095
55°	1245	1924	1621
60°	996	1557	1384
65°	816	1380	1279
70°	696	1327	1203
75°	670	1419	1169
80°	744	1743	1243
85°	1249	2731	1736

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4588 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	7.6
10°-20°	149.1	19.5
20°-30°	183.2	23.9
30°-40°	162.0	21.1
40°-50°	103.4	13.5
50°-60°	50.4	6.6
60°-70°	30.0	3.9
70°-80°	19.2	2.5
80°-90°	10.6	1.4
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°	390.6	51.0
0°-40°	552.6	72.1
0°-60°	706.4	92.2
0°-90°	766.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	766.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	635	635	635	635	635	
5°	610	623	621	623	629	57
15°	503	517	530	553	572	140
25°	363	376	396	421	449	166
35°	217	228	254	289	321	135
45°	78	101	142	159	176	66
55°	39	52	60	56	50	35
65°	19	35	32	29	29	19
75°	9	21	20	18	16	10
85°	6	12	13	12	8	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	635.1	635.1	635.1	635.1	635.1
2.5°	625.8	637.5	630.5	630.5	631.6
5°	610.5	623.4	621.1	623.4	629.3
7.5°	589.4	602.3	604.7	614.1	621.1
10°	562.5	575.4	582.4	597.6	608.2
12.5°	534.4	547.3	557.8	577.7	593.0
15°	502.7	516.8	529.7	553.1	571.9
17.5°	469.9	484.0	500.4	523.8	546.1
20°	434.8	447.6	467.6	489.8	513.3
22.5°	400.8	412.5	433.6	454.7	482.8
25°	363.3	376.2	396.1	420.7	448.8
27.5°	326.9	339.8	359.8	387.9	417.2
30°	290.6	302.3	324.6	353.9	385.5
32.5°	253.1	264.8	289.4	321.1	353.9
35°	216.8	228.5	254.3	289.4	321.1
37.5°	180.5	193.4	222.7	255.5	282.4
40°	145.3	160.5	194.5	222.7	246.1
42.5°	110.2	131.2	167.6	191.0	209.8
45°	78.5	100.8	141.8	159.4	175.8
47.5°	59.8	77.3	117.2	130.1	140.6
50°	51.6	63.3	93.7	103.1	107.8
52.5°	44.5	56.2	75.0	78.5	76.2
55°	38.7	51.6	59.8	56.2	50.4
57.5°	32.8	48.0	49.2	42.2	43.4
60°	27.0	43.4	42.2	36.3	37.5
62.5°	22.3	39.8	36.3	32.8	32.8
65°	18.7	35.2	31.6	29.3	29.3
67.5°	15.2	31.6	28.1	25.8	25.8
70°	12.9	28.1	24.6	22.3	22.3
72.5°	11.7	24.6	22.3	19.9	19.9
75°	9.4	21.1	19.9	17.6	16.4
77.5°	8.2	17.6	17.6	16.4	14.1
80°	7.0	15.2	16.4	14.1	11.7
82.5°	7.0	14.1	14.1	12.9	9.4
85°	5.9	11.7	12.9	11.7	8.2
87.5°	3.5	10.5	10.5	9.4	5.9
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	10.57	11.85	10.94	12.17	12.48	10.11	11.39	10.47	11.70	12.01
	3H	11.75	12.89	12.13	13.22	13.58	11.67	12.81	12.05	13.14	13.51
	4H	12.18	13.24	12.58	13.59	13.98	12.35	13.42	12.76	13.77	14.15
	6H	12.53	13.50	12.94	13.87	14.27	13.00	13.98	13.42	14.35	14.74
	8H	12.72	13.65	13.15	14.04	14.44	13.29	14.22	13.72	14.61	15.01
	12H	12.94	13.83	13.37	14.21	14.64	13.61	14.49	14.04	14.88	15.31
4H	2H	11.08	12.14	11.48	12.49	12.87	10.70	11.77	11.11	12.12	12.50
	3H	12.72	13.60	13.13	14.00	14.40	12.51	13.38	12.92	13.79	14.19
	4H	13.49	14.27	13.92	14.69	15.14	13.35	14.13	13.78	14.55	15.00
	6H	14.09	14.77	14.55	15.22	15.68	14.21	14.89	14.67	15.33	15.80
	8H	14.39	15.02	14.86	15.47	15.94	14.60	15.23	15.07	15.68	16.15
	12H	14.70	15.27	15.19	15.75	16.22	15.03	15.60	15.52	16.08	16.55
8H	4H	13.91	14.54	14.38	14.99	15.46	13.81	14.44	14.28	14.89	15.36
	6H	14.85	15.38	15.36	15.87	16.35	14.92	15.44	15.42	15.93	16.42
	8H	15.40	15.87	15.92	16.39	16.88	15.50	15.97	16.02	16.48	16.97
	12H	15.97	16.38	16.48	16.88	17.45	16.16	16.58	16.68	17.07	17.65
12H	4H	13.98	14.54	14.46	15.02	15.50	13.89	14.45	14.38	14.93	15.41
	6H	15.04	15.51	15.56	16.02	16.52	15.10	15.57	15.62	16.09	16.58
	8H	15.73	16.15	16.25	16.64	17.21	15.81	16.23	16.33	16.72	17.29