

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: P1059083

Luminaire Tested: S123RDRP-S1000D950-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-67)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S1000D950-X4F0-XX-UDD-WVL-S
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

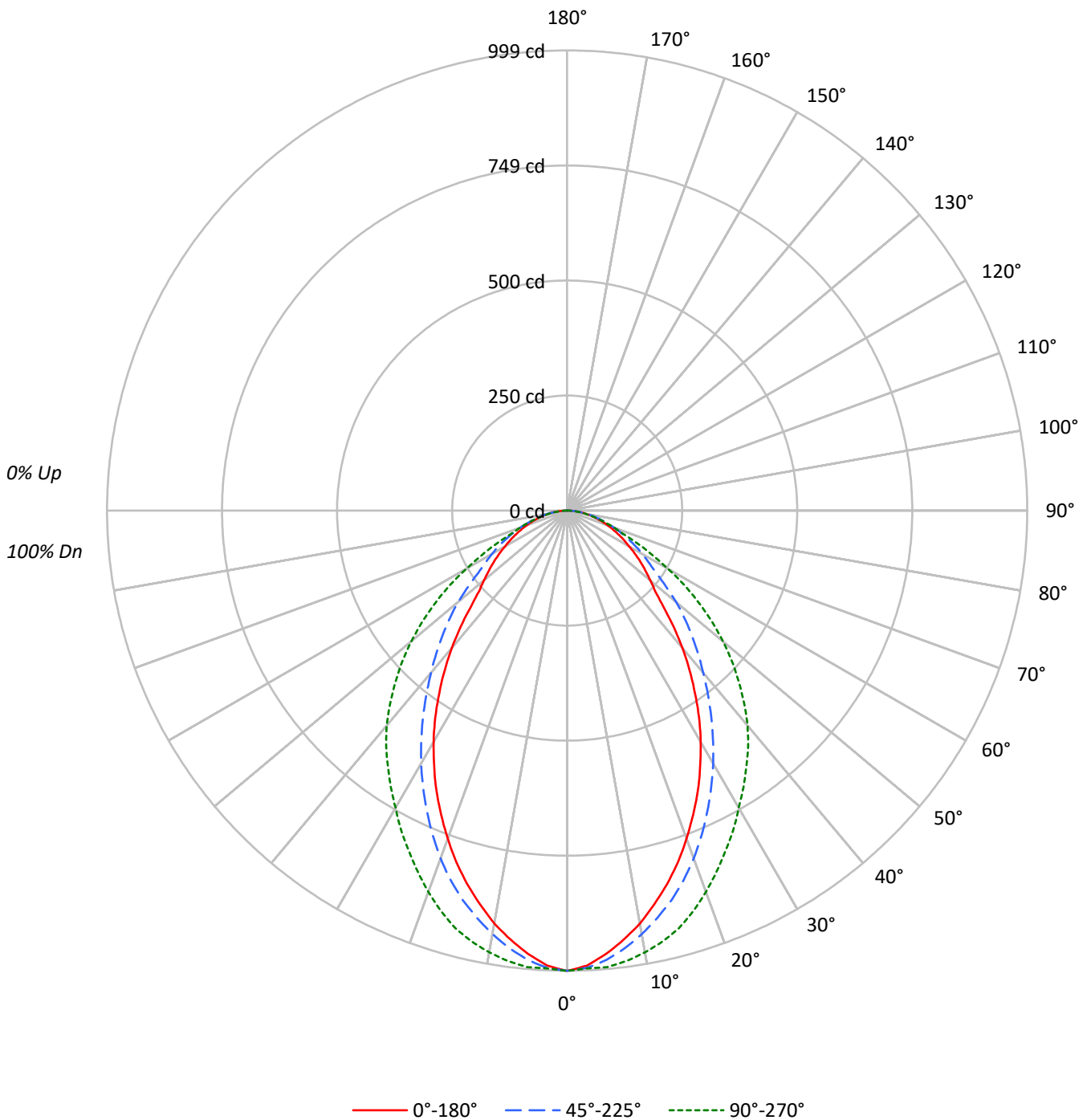
Lumens per Lamp: N/A
Luminaire Lumens: 1805.2 lumens
Efficiency: N/A
Efficacy: 51.6 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.12 / 1.1
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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

TEST NUMBER: P1059083

CATALOG NUMBER: S123RDRP-S1000D950-X4F0-XX-UDD-WVL-S

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	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87					87			
2	102	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75					75			
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65					65			
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57					57			
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51					51			
6	75	63	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45					45			
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	43	41					41			
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37					37			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	39	35	34					34			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11734	11734	11734
5°	11392	11544	11725
10°	10854	11133	11609
15°	10197	10640	11408
20°	9472	10043	11009
25°	8698	9335	10549
30°	7863	8594	10103
35°	6937	7810	9723
40°	5963	7040	9338
45°	4902	6342	8755
50°	4302	5650	8069
55°	3982	4821	7147
60°	3659	4429	5916
65°	3418	4068	4654
70°	3217	3701	3701
75°	3031	3403	3189
80°	2854	3090	2691
85°	2681	3004	2048

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8755 cd/sqm



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CATALOG NUMBER: S123RDRP-S1000D950-X4F0-XX-UDD-WVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	5.1
10°-20°	247.7	13.7
20°-30°	335.9	18.6
30°-40°	351.2	19.5
40°-50°	304.6	16.9
50°-60°	226.6	12.6
60°-70°	145.4	8.1
70°-80°	78.0	4.3
80°-90°	23.5	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°	676.0	37.4
0°-40°	1027.2	56.9
0°-60°	1558.3	86.3
0°-90°	1805.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1805.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	966	983	979	986	995	90
15°	839	859	875	910	938	235
25°	671	692	720	768	814	308
35°	484	507	545	614	678	302
45°	295	318	382	464	527	232
55°	194	199	236	302	349	174
65°	123	134	146	156	168	122
75°	67	77	75	72	70	71
85°	20	25	22	19	15	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.3	999.3	999.3	999.3	999.3
2.5°	988.8	1002.9	993.5	993.5	994.7
5°	966.5	982.9	979.4	986.5	994.7
7.5°	939.6	957.2	958.3	974.7	986.5
10°	910.3	927.9	933.7	957.2	973.6
12.5°	875.2	895.1	905.6	934.9	958.3
15°	838.8	858.8	875.2	910.3	938.4
17.5°	800.2	820.1	841.2	881.0	911.5
20°	758.0	779.1	803.7	843.5	881.0
22.5°	714.7	736.9	762.7	806.0	848.2
25°	671.3	692.4	720.5	768.5	814.2
27.5°	625.6	647.9	677.2	729.9	781.4
30°	579.9	602.2	633.8	690.1	745.1
32.5°	533.1	555.3	589.3	652.6	712.3
35°	483.9	507.3	544.8	613.9	678.3
37.5°	437.0	459.3	501.4	577.6	645.5
40°	389.0	412.4	459.3	541.3	609.2
42.5°	342.1	365.5	420.6	502.6	569.4
45°	295.2	317.5	381.9	463.9	527.2
47.5°	258.9	275.3	345.6	422.9	486.2
50°	235.5	241.3	309.3	383.1	441.7
52.5°	214.4	219.1	269.5	343.3	396.0
55°	194.5	199.2	235.5	302.3	349.1
57.5°	174.6	180.4	209.7	260.1	302.3
60°	155.8	162.8	188.6	222.6	251.9
62.5°	139.4	147.6	167.5	188.6	208.5
65°	123.0	133.6	146.4	155.8	167.5
67.5°	107.8	119.5	126.5	128.9	130.0
70°	93.7	105.4	107.8	107.8	107.8
72.5°	79.7	92.6	90.2	89.0	87.9
75°	66.8	77.3	75.0	71.5	70.3
77.5°	53.9	63.3	59.8	57.4	53.9
80°	42.2	49.2	45.7	43.3	39.8
82.5°	31.6	36.3	32.8	30.5	26.9
85°	19.9	24.6	22.3	18.7	15.2
87.5°	10.5	14.1	11.7	10.5	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	15.34	16.82	15.71	17.14	17.45	18.10	19.58	18.46	19.89	20.21
	3H	17.05	18.38	17.43	18.71	19.07	19.12	20.45	19.50	20.78	21.14
	4H	17.71	18.96	18.11	19.31	19.69	19.48	20.73	19.88	21.08	21.46
	6H	18.21	19.36	18.63	19.73	20.12	19.74	20.89	20.15	21.26	21.65
	8H	18.39	19.49	18.82	19.88	20.28	19.81	20.90	20.24	21.29	21.70
	12H	18.52	19.57	18.95	19.95	20.38	19.84	20.89	20.28	21.27	21.70
4H	2H	16.12	17.36	16.52	17.71	18.09	18.37	19.61	18.77	19.96	20.34
	3H	18.04	19.08	18.45	19.48	19.88	19.62	20.66	20.03	21.06	21.46
	4H	18.85	19.78	19.29	20.20	20.64	20.11	21.04	20.54	21.46	21.90
	6H	19.49	20.30	19.95	20.74	21.21	20.49	21.30	20.95	21.74	22.20
	8H	19.72	20.48	20.19	20.92	21.39	20.60	21.36	21.07	21.80	22.27
	12H	19.89	20.57	20.38	21.05	21.52	20.67	21.35	21.16	21.83	22.30
8H	4H	19.17	19.93	19.64	20.37	20.84	20.30	21.06	20.77	21.50	21.97
	6H	19.97	20.59	20.46	21.08	21.56	20.79	21.41	21.29	21.91	22.38
	8H	20.29	20.85	20.81	21.36	21.85	20.97	21.53	21.48	22.04	22.52
	12H	20.57	21.07	21.08	21.56	22.12	21.10	21.59	21.61	22.09	22.65
12H	4H	19.20	19.87	19.68	20.35	20.82	20.32	20.99	20.80	21.47	21.94
	6H	20.02	20.58	20.53	21.09	21.58	20.83	21.39	21.34	21.90	22.39
	8H	20.41	20.91	20.92	21.40	21.97	21.06	21.55	21.57	22.04	22.61