

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: P1061579

Luminaire Tested: S125RDRP-S1270D940-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D940-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

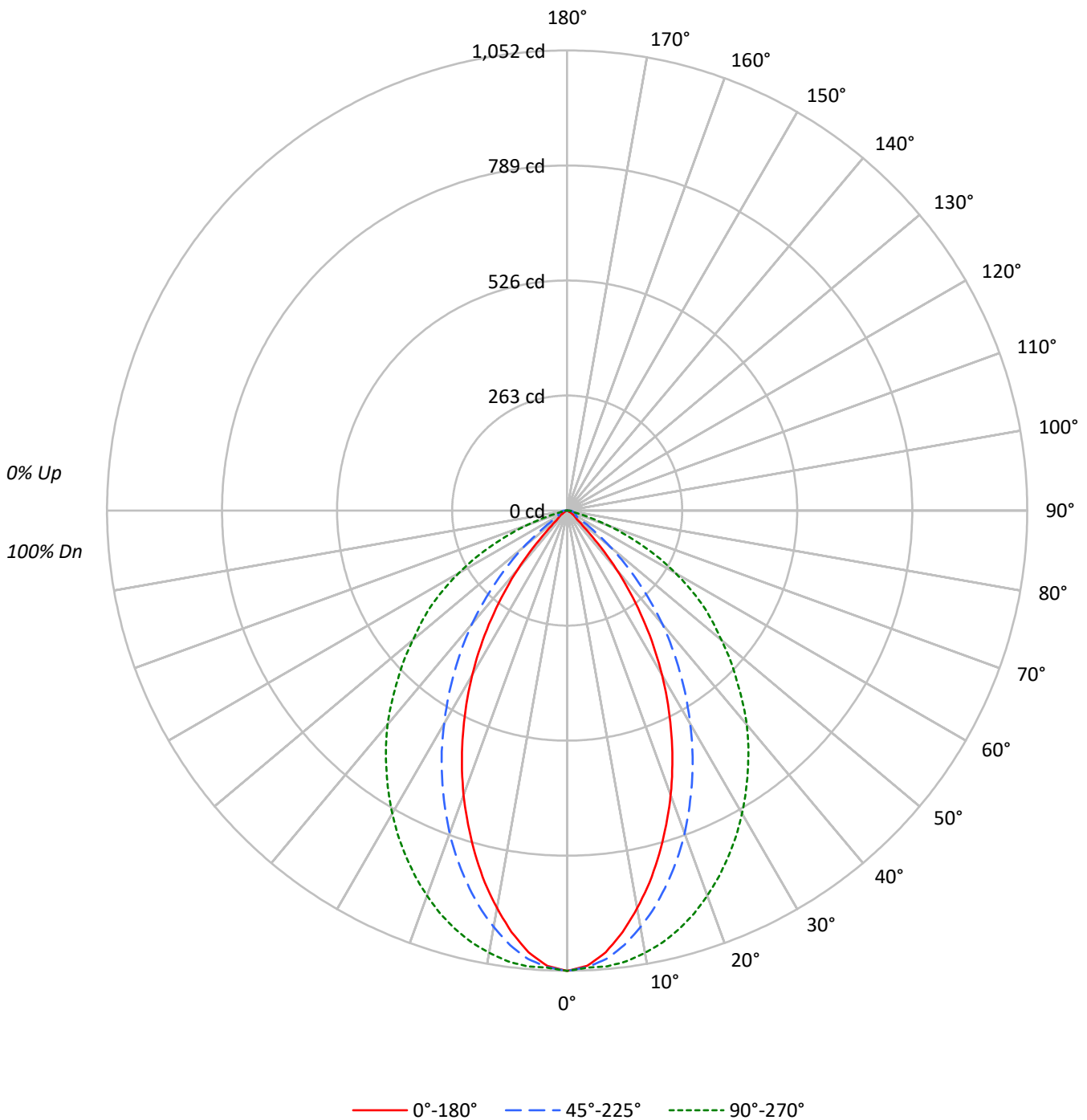
Lumens per Lamp: N/A
Luminaire Lumens: 1353.6 lumens
Efficiency: N/A
Efficacy: 32.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1061579

CATALOG NUMBER: S125RDRP-S1270D940-X4F0-XX-UDD-BVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1061579

CATALOG NUMBER: S125RDRP-S1270D940-X4F0-XX-UDD-BVL-S

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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90													90															
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81													81															
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72													72															
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65													65															
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59													59															
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54													54															
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49													49															
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45													45															
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42													42															
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39													39															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7246	7246	7246
5°	7005	7113	7229
10°	6452	6759	7177
15°	5792	6291	7058
20°	5071	5755	6866
25°	4283	5139	6626
30°	3452	4472	6358
35°	2538	3769	6057
40°	1585	3041	5742
45°	593	2221	5338
50°	277	1388	4928
55°	202	576	4558
60°	143	303	3944
65°	85	358	3125
70°	79	417	1983
75°	104	415	620
80°	155	515	464
85°	308	822	616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5338 cd/sqm



TEST NUMBER: P1061579

CATALOG NUMBER: S125RDRP-S1270D940-X4F0-XX-UDD-BVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	7.1
10°-20°	249.8	18.5
20°-30°	318.3	23.5
30°-40°	296.2	21.9
40°-50°	203.0	15.0
50°-60°	111.8	8.3
60°-70°	52.9	3.9
70°-80°	16.6	1.2
80°-90°	8.5	0.6
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°	664.6	49.1
0°-40°	960.8	71.0
0°-60°	1275.5	94.2
0°-90°	1353.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1353.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1014	1026	1029	1037	1046	94
15°	813	838	883	949	990	227
25°	564	599	676	785	872	257
35°	302	345	448	596	721	187
45°	61	102	228	404	548	58
55°	17	19	48	226	380	15
65°	5	6	22	83	192	6
75°	4	6	16	17	23	4
85°	4	9	10	9	8	4
90°	0	0	0	0	0	



TEST NUMBER: P1061579

CATALOG NUMBER: S125RDRP-S1270D940-X4F0-XX-UDD-BVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1052.4	1052.4	1052.4	1052.4	1052.4
2.5°	1042.0	1052.4	1044.6	1044.6	1045.9
5°	1013.5	1026.5	1029.1	1036.8	1045.9
7.5°	972.0	988.9	1001.8	1023.9	1039.4
10°	922.8	943.5	966.8	1003.1	1026.5
12.5°	870.9	893.0	928.0	978.5	1010.9
15°	812.6	838.5	882.6	948.7	990.2
17.5°	753.0	781.5	835.9	913.7	965.6
20°	692.1	721.9	785.4	872.2	937.0
22.5°	628.6	661.0	731.0	829.5	905.9
25°	563.8	598.8	676.5	785.4	872.2
27.5°	499.0	535.3	620.8	740.0	837.2
30°	434.2	471.8	562.5	693.4	799.7
32.5°	368.1	409.5	505.5	646.7	760.8
35°	302.0	344.7	448.4	596.2	720.6
37.5°	237.2	281.2	392.7	548.2	680.4
40°	176.3	220.3	338.3	500.3	638.9
42.5°	114.1	160.7	281.2	451.0	593.6
45°	60.9	102.4	228.1	404.4	548.2
47.5°	32.4	54.4	177.6	357.7	505.5
50°	25.9	29.8	129.6	311.1	460.1
52.5°	20.7	23.3	82.9	263.1	419.9
55°	16.8	19.4	48.0	225.5	379.7
57.5°	13.0	15.6	27.2	187.9	333.1
60°	10.4	11.7	22.0	150.3	286.4
62.5°	6.5	9.1	22.0	116.6	239.8
65°	5.2	6.5	22.0	82.9	191.8
67.5°	5.2	5.2	22.0	54.4	143.9
70°	3.9	3.9	20.7	35.0	98.5
72.5°	3.9	3.9	18.1	23.3	57.0
75°	3.9	6.5	15.6	16.8	23.3
77.5°	3.9	10.4	14.3	14.3	13.0
80°	3.9	10.4	13.0	11.7	11.7
82.5°	3.9	10.4	10.4	10.4	9.1
85°	3.9	9.1	10.4	9.1	7.8
87.5°	3.9	9.1	9.1	9.1	5.2
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1061579
 CATALOG NUMBER: S125RDRP-S1270D940-X4F0-XX-UDD-BVL-S

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	0.00	0.00	0.00	0.00	0.00	15.93	17.21	16.29	17.52	17.84
	3H	0.00	0.00	0.00	0.00	0.00	16.71	17.85	17.09	18.18	18.54
	4H	0.00	0.00	0.00	0.00	0.20	16.74	17.80	17.14	18.15	18.53
	6H	0.00	0.61	0.05	0.98	1.37	16.69	17.67	17.11	18.04	18.43
	8H	0.31	1.23	0.74	1.62	2.03	16.67	17.59	17.10	17.98	18.39
	12H	1.06	1.94	1.49	2.32	2.75	16.65	17.53	17.09	17.91	18.34
4H	2H	0.00	0.77	0.12	1.12	1.51	15.71	16.77	16.11	17.12	17.50
	3H	0.58	1.45	1.00	1.85	2.25	16.54	17.40	16.95	17.80	18.21
	4H	1.18	1.95	1.62	2.37	2.82	16.57	17.34	17.01	17.76	18.20
	6H	2.69	3.35	3.15	3.80	4.26	16.56	17.22	17.02	17.67	18.14
	8H	3.43	4.05	3.90	4.50	4.97	16.54	17.16	17.01	17.61	18.08
	12H	4.17	4.72	4.66	5.20	5.68	16.54	17.09	17.03	17.57	18.05
8H	4H	3.23	3.85	3.70	4.29	4.76	16.46	17.08	16.93	17.52	18.00
	6H	4.98	5.48	5.48	5.98	6.46	16.46	16.96	16.96	17.46	17.94
	8H	5.93	6.38	6.45	6.90	7.39	16.46	16.92	16.99	17.44	17.93
	12H	6.87	7.27	7.38	7.76	8.33	16.51	16.91	17.03	17.41	17.98
12H	4H	3.53	4.08	4.02	4.56	5.03	16.41	16.96	16.90	17.44	17.92
	6H	5.43	5.89	5.96	6.41	6.90	16.41	16.87	16.94	17.38	17.88
	8H	6.57	6.97	7.08	7.47	8.04	16.45	16.85	16.97	17.35	17.92