

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: P1061510

Luminaire Tested: S125RDRP-S1090D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1090D950-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

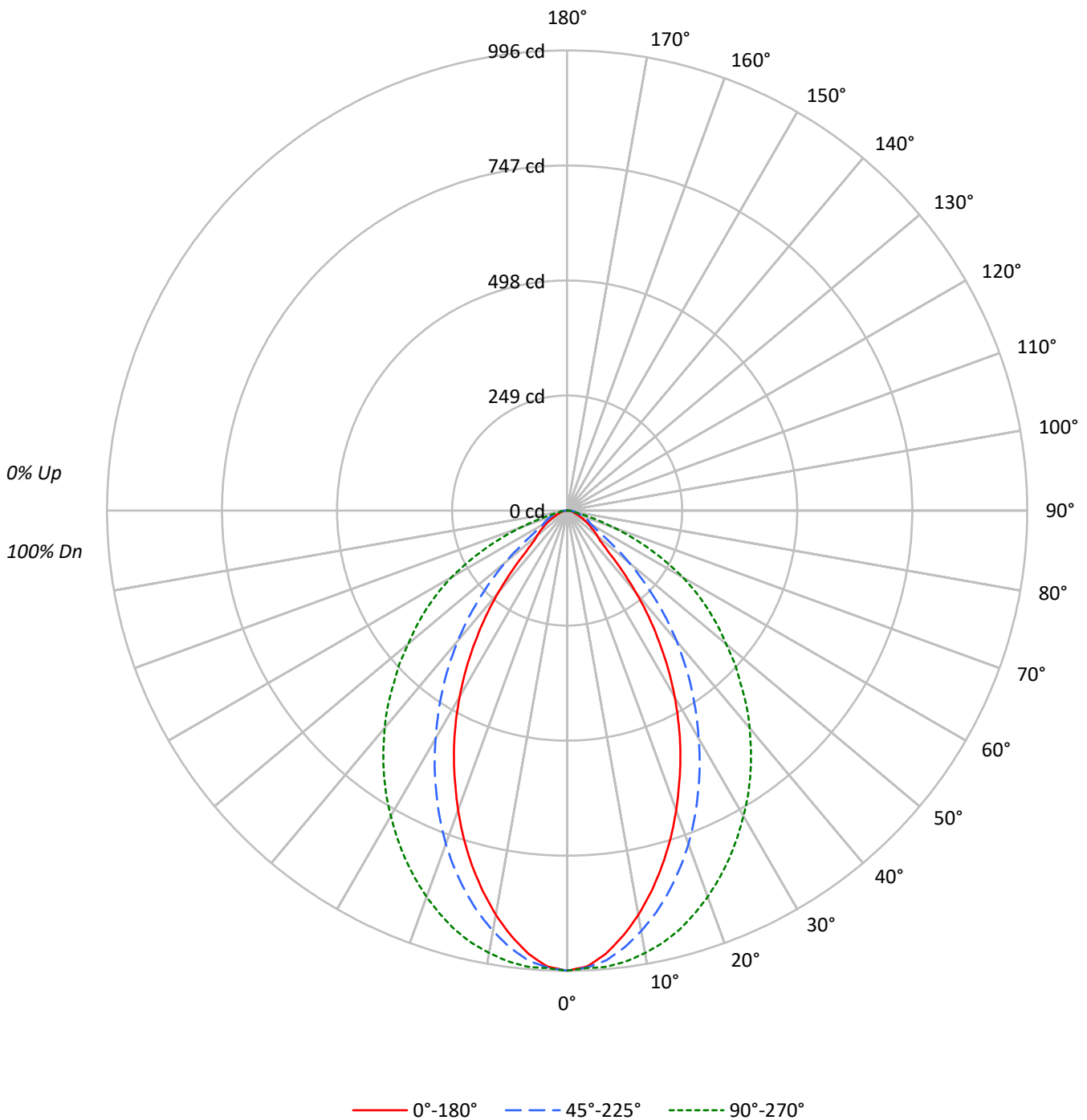
Lumens per Lamp: N/A
Luminaire Lumens: 1437.9 lumens
Efficiency: N/A
Efficacy: 41.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56					56			
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51					51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46					46			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42					42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6856	6856	6856
5°	6654	6752	6850
10°	6211	6459	6797
15°	5667	6080	6694
20°	5055	5626	6517
25°	4406	5098	6309
30°	3700	4527	6067
35°	2919	3942	5818
40°	2092	3313	5521
45°	1231	2600	5176
50°	912	1872	4808
55°	766	1134	4467
60°	618	829	3985
65°	481	789	3195
70°	405	737	2164
75°	378	660	942
80°	377	654	611
85°	466	837	656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5176 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	6.4
10°-20°	241.0	16.8
20°-30°	315.0	21.9
30°-40°	306.6	21.3
40°-50°	229.2	15.9
50°-60°	142.1	9.9
60°-70°	74.7	5.2
70°-80°	27.2	1.9
80°-90°	10.3	0.7
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°	647.8	45.1
0°-40°	954.5	66.4
0°-60°	1325.8	92.2
0°-90°	1437.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1437.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	963	976	977	983	991	90
15°	795	819	853	905	939	222
25°	580	610	671	762	830	265
35°	347	385	469	594	692	216
45°	126	165	267	417	532	106
55°	64	67	94	246	372	57
65°	30	32	48	104	196	31
75°	14	16	25	27	35	15
85°	6	11	11	11	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.8	995.8	995.8	995.8	995.8
2.5°	987.6	995.8	989.9	989.9	991.1
5°	962.7	975.7	976.9	982.8	991.1
7.5°	928.5	943.8	953.3	971.0	984.0
10°	888.3	906.0	923.8	953.3	972.2
12.5°	843.4	864.7	890.7	930.9	958.0
15°	795.0	818.6	852.9	904.9	939.1
17.5°	744.2	769.0	811.5	874.1	915.5
20°	689.9	717.0	767.8	838.7	889.5
22.5°	634.3	665.1	720.6	800.9	861.2
25°	580.0	609.5	671.0	761.9	830.4
27.5°	523.3	554.0	621.4	721.8	797.4
30°	465.4	498.5	569.4	680.4	763.1
32.5°	407.5	441.8	518.6	637.9	728.9
35°	347.3	385.1	469.0	594.2	692.2
37.5°	290.6	330.8	418.2	549.3	653.2
40°	232.7	274.1	368.6	505.6	614.3
42.5°	176.0	218.5	317.8	460.7	575.3
45°	126.4	165.4	267.0	417.0	531.6
47.5°	96.9	119.3	219.7	372.1	492.6
50°	85.1	92.1	174.8	328.4	448.9
52.5°	74.4	79.1	129.9	285.9	411.1
55°	63.8	67.3	94.5	245.7	372.1
57.5°	54.3	57.9	72.1	209.1	331.9
60°	44.9	48.4	60.2	172.5	289.4
62.5°	37.8	39.0	54.3	138.2	242.2
65°	29.5	31.9	48.4	104.0	196.1
67.5°	24.8	26.0	42.5	74.4	151.2
70°	20.1	21.3	36.6	52.0	107.5
72.5°	17.7	17.7	30.7	37.8	68.5
75°	14.2	16.5	24.8	27.2	35.4
77.5°	11.8	16.5	21.3	20.1	18.9
80°	9.5	15.4	16.5	16.5	15.4
82.5°	8.3	13.0	14.2	13.0	11.8
85°	5.9	10.6	10.6	10.6	8.3
87.5°	4.7	9.5	8.3	8.3	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	6.48	7.83	6.84	8.14	8.45	16.18	17.53	16.55	17.84	18.16
	3H	7.32	8.51	7.70	8.84	9.21	17.09	18.29	17.47	18.62	18.98
	4H	7.67	8.79	8.08	9.14	9.52	17.19	18.31	17.59	18.66	19.04
	6H	8.05	9.08	8.46	9.45	9.84	17.18	18.20	17.59	18.57	18.97
	8H	8.23	9.20	8.66	9.59	10.00	17.16	18.14	17.59	18.53	18.93
	12H	8.39	9.32	8.83	9.71	10.14	17.15	18.08	17.58	18.46	18.89
4H	2H	7.30	8.42	7.71	8.77	9.15	16.03	17.15	16.43	17.50	17.88
	3H	8.36	9.28	8.78	9.68	10.08	17.02	17.93	17.43	18.34	18.74
	4H	8.82	9.63	9.25	10.05	10.50	17.15	17.97	17.58	18.39	18.83
	6H	9.38	10.08	9.84	10.53	10.99	17.18	17.89	17.64	18.33	18.80
	8H	9.64	10.30	10.11	10.74	11.21	17.18	17.84	17.65	18.29	18.76
	12H	9.88	10.46	10.36	10.94	11.42	17.19	17.77	17.68	18.26	18.73
8H	4H	9.37	10.03	9.84	10.48	10.95	17.07	17.73	17.54	18.18	18.65
	6H	10.15	10.69	10.65	11.19	11.67	17.13	17.67	17.63	18.17	18.65
	8H	10.57	11.05	11.09	11.57	12.06	17.16	17.65	17.68	18.16	18.65
	12H	10.99	11.41	11.50	11.91	12.48	17.22	17.64	17.73	18.14	18.71
12H	4H	9.43	10.02	9.92	10.50	10.97	17.04	17.62	17.52	18.10	18.58
	6H	10.29	10.78	10.82	11.29	11.79	17.10	17.58	17.62	18.10	18.59
	8H	10.82	11.25	11.34	11.75	12.32	17.16	17.59	17.68	18.09	18.66