

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: P1061471

Luminaire Tested: S125RDRP-S1090D927-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061471
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-S1090D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

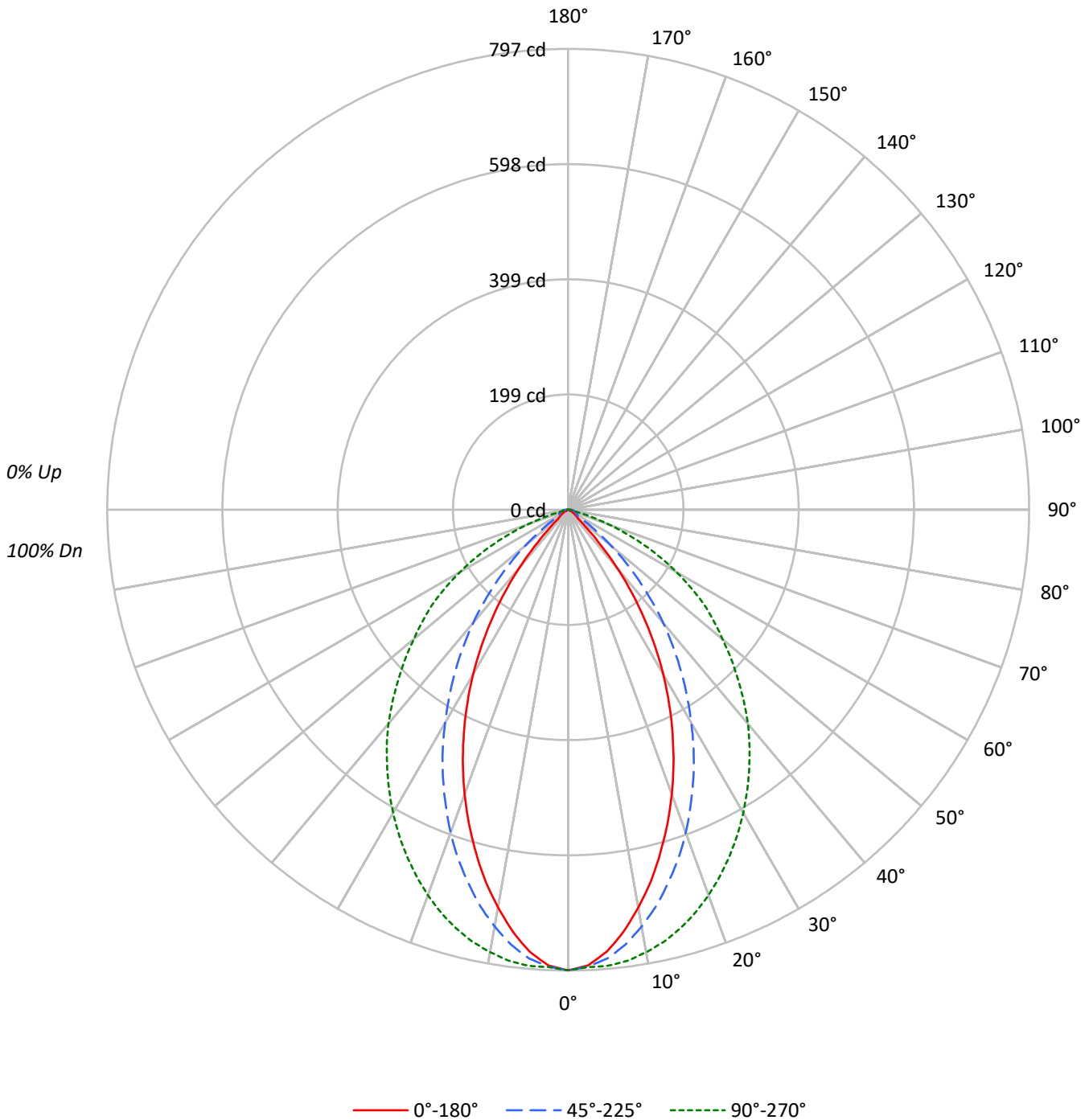
Lumens per Lamp: N/A
Luminaire Lumens: 1024.6 lumens
Efficiency: N/A
Efficacy: 29.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	5485	5485	5485
5°	5303	5384	5472
10°	4884	5117	5432
15°	4385	4762	5343
20°	3839	4356	5197
25°	3242	3890	5016
30°	2613	3385	4812
35°	1921	2854	4585
40°	1199	2302	4348
45°	449	1682	4041
50°	210	1051	3731
55°	154	436	3451
60°	107	230	2985
65°	64	272	2366
70°	58	316	1502
75°	77	314	471
80°	115	389	349
85°	229	616	466

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4041 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	7.1
10°-20°	189.1	18.5
20°-30°	240.9	23.5
30°-40°	224.2	21.9
40°-50°	153.6	15.0
50°-60°	84.6	8.3
60°-70°	40.1	3.9
70°-80°	12.6	1.2
80°-90°	6.4	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°	503.1	49.1
0°-40°	727.3	71.0
0°-60°	965.6	94.2
0°-90°	1024.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1024.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	797	797	797	797	797	
5°	767	777	779	785	792	71
15°	615	635	668	718	750	171
25°	427	453	512	594	660	195
35°	229	261	340	451	546	142
45°	46	78	173	306	415	44
55°	13	15	36	171	288	12
65°	4	5	17	63	145	4
75°	3	5	12	13	18	3
85°	3	7	8	7	6	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	796.6	796.6	796.6	796.6	796.6
2.5°	788.8	796.6	790.7	790.7	791.7
5°	767.2	777.0	779.0	784.9	791.7
7.5°	735.8	748.6	758.4	775.0	786.8
10°	698.5	714.2	731.9	759.3	777.0
12.5°	659.3	676.0	702.4	740.7	765.2
15°	615.1	634.8	668.1	718.1	749.5
17.5°	570.0	591.6	632.8	691.7	730.9
20°	523.9	546.5	594.5	660.3	709.3
22.5°	475.8	500.3	553.3	627.9	685.8
25°	426.8	453.3	512.1	594.5	660.3
27.5°	377.7	405.2	469.9	560.2	633.8
30°	328.7	357.1	425.8	524.9	605.3
32.5°	278.6	310.0	382.6	489.6	575.9
35°	228.6	261.0	339.5	451.3	545.5
37.5°	179.5	212.9	297.3	415.0	515.1
40°	133.4	166.8	256.1	378.7	483.7
42.5°	86.3	121.7	212.9	341.4	449.3
45°	46.1	77.5	172.7	306.1	415.0
47.5°	24.5	41.2	134.4	270.8	382.6
50°	19.6	22.6	98.1	235.5	348.3
52.5°	15.7	17.7	62.8	199.2	317.9
55°	12.8	14.7	36.3	170.7	287.5
57.5°	9.8	11.8	20.6	142.3	252.1
60°	7.8	8.8	16.7	113.8	216.8
62.5°	4.9	6.9	16.7	88.3	181.5
65°	3.9	4.9	16.7	62.8	145.2
67.5°	3.9	3.9	16.7	41.2	108.9
70°	2.9	2.9	15.7	26.5	74.6
72.5°	2.9	2.9	13.7	17.7	43.2
75°	2.9	4.9	11.8	12.8	17.7
77.5°	2.9	7.8	10.8	10.8	9.8
80°	2.9	7.8	9.8	8.8	8.8
82.5°	2.9	7.8	7.8	7.8	6.9
85°	2.9	6.9	7.8	6.9	5.9
87.5°	2.9	6.9	6.9	6.9	3.9
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	0.00	0.00	0.00	0.00	0.00	14.96	16.25	15.32	16.56	16.87
	3H	0.00	0.00	0.00	0.00	0.00	15.75	16.88	16.13	17.21	17.58
	4H	0.00	0.00	0.00	0.00	0.00	15.77	16.83	16.18	17.18	17.57
	6H	0.00	0.00	0.00	0.00	0.35	15.73	16.70	16.14	17.07	17.47
	8H	0.00	0.20	0.00	0.59	1.00	15.71	16.62	16.14	17.02	17.42
	12H	0.03	0.90	0.46	1.29	1.72	15.69	16.57	16.12	16.95	17.38
4H	2H	0.00	0.00	0.00	0.16	0.54	14.74	15.80	15.15	16.15	16.54
	3H	0.00	0.47	0.02	0.88	1.28	15.57	16.43	15.98	16.84	17.24
	4H	0.20	0.97	0.64	1.39	1.84	15.61	16.38	16.04	16.80	17.24
	6H	1.68	2.34	2.14	2.79	3.26	15.59	16.26	16.06	16.70	17.17
	8H	2.41	3.03	2.88	3.48	3.95	15.58	16.20	16.05	16.64	17.12
	12H	3.15	3.70	3.64	4.18	4.66	15.58	16.12	16.07	16.61	17.08
8H	4H	2.25	2.87	2.72	3.31	3.79	15.49	16.11	15.96	16.56	17.03
	6H	3.98	4.48	4.48	4.98	5.46	15.49	16.00	16.00	16.50	16.98
	8H	4.92	5.37	5.44	5.89	6.38	15.50	15.95	16.02	16.47	16.96
	12H	5.86	6.26	6.37	6.75	7.32	15.54	15.95	16.06	16.44	17.01
12H	4H	2.55	3.09	3.03	3.58	4.05	15.45	16.00	15.94	16.48	16.95
	6H	4.43	4.89	4.96	5.40	5.90	15.45	15.90	15.97	16.42	16.91
	8H	5.56	5.96	6.07	6.45	7.03	15.49	15.89	16.00	16.38	16.95