

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: P1062077

Luminaire Tested: S125RDRP-H375D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1062077
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-H375D950-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

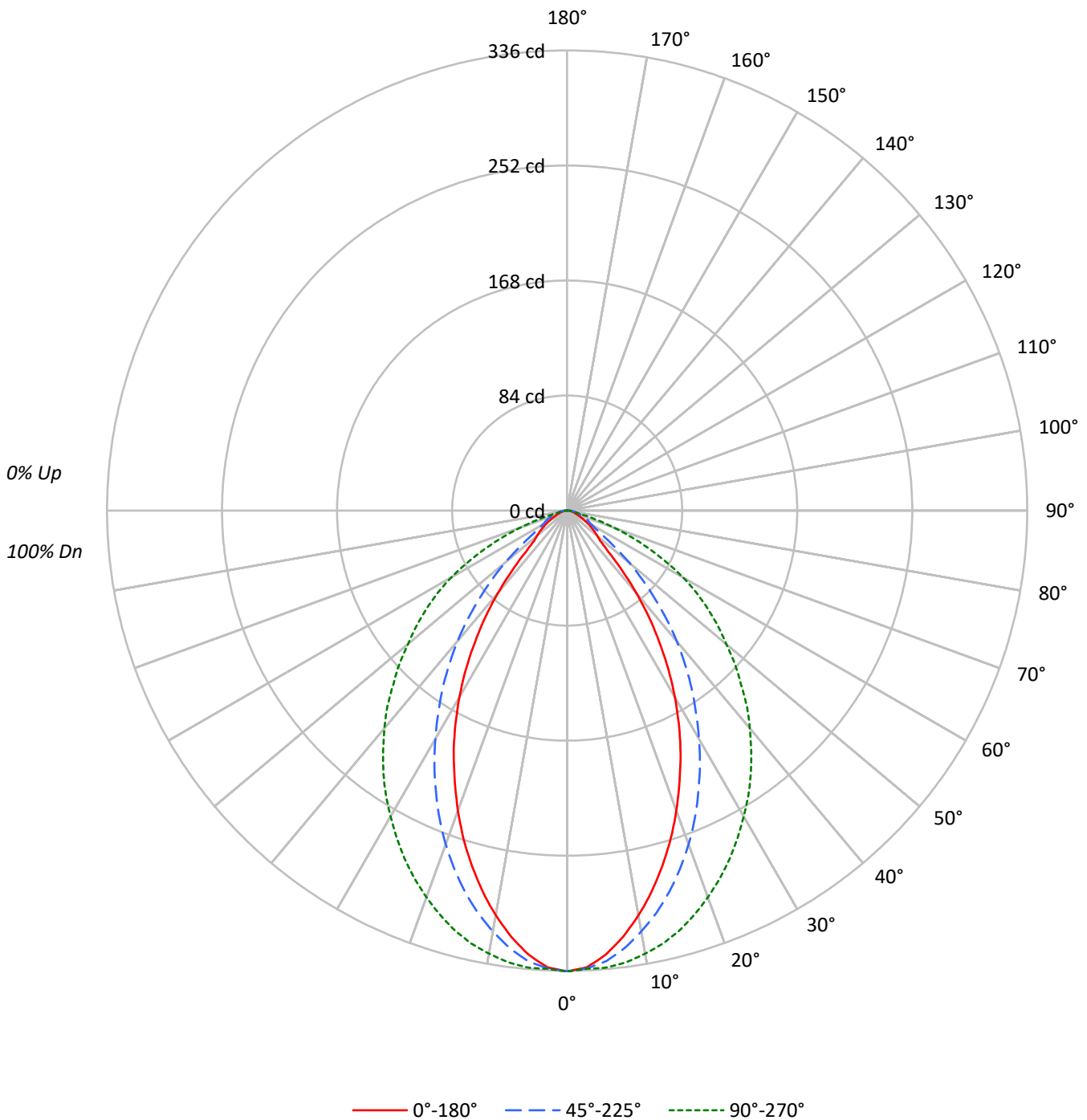
Lumens per Lamp: N/A
Luminaire Lumens: 485.9 lumens
Efficiency: N/A
Efficacy: 41.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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: P1062077

CATALOG NUMBER: S125RDRP-H375D950-X4F0-XX-UDD-SVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1062077

CATALOG NUMBER: S125RDRP-H375D950-X4F0-XX-UDD-SVL-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																												
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89																												
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																												
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70																												
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63																												
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56																												
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51																												
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																												
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42																												
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39																												
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2317	2317	2317
5°	2248	2281	2315
10°	2098	2182	2297
15°	1915	2054	2262
20°	1708	1901	2202
25°	1489	1722	2132
30°	1251	1530	2050
35°	986	1332	1966
40°	706	1119	1865
45°	416	878	1749
50°	307	633	1625
55°	259	383	1509
60°	209	281	1347
65°	163	267	1080
70°	137	250	731
75°	128	223	319
80°	127	222	206
85°	158	284	221

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1749 cd/sqm



TEST NUMBER: P1062077

CATALOG NUMBER: S125RDRP-H375D950-X4F0-XX-UDD-SVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.0	6.4
10°-20°	81.4	16.8
20°-30°	106.4	21.9
30°-40°	103.6	21.3
40°-50°	77.4	15.9
50°-60°	48.0	9.9
60°-70°	25.2	5.2
70°-80°	9.2	1.9
80°-90°	3.5	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°	218.9	45.0
0°-40°	322.5	66.4
0°-60°	447.9	92.2
0°-90°	485.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	485.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	336	336	336	336	336	
5°	325	330	330	332	335	30
15°	269	277	288	306	317	75
25°	196	206	227	257	281	90
35°	117	130	158	201	234	73
45°	43	56	90	141	180	36
55°	22	23	32	83	126	19
65°	10	11	16	35	66	10
75°	5	6	8	9	12	5
85°	2	4	4	4	3	2
90°	0	0	0	0	0	



TEST NUMBER: P1062077

CATALOG NUMBER: S125RDRP-H375D950-X4F0-XX-UDD-SVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	336.5	336.5	336.5	336.5	336.5
2.5°	333.7	336.5	334.5	334.5	334.9
5°	325.3	329.7	330.1	332.1	334.9
7.5°	313.7	318.9	322.1	328.1	332.5
10°	300.1	306.1	312.1	322.1	328.5
12.5°	285.0	292.2	300.9	314.5	323.7
15°	268.6	276.6	288.2	305.7	317.3
17.5°	251.4	259.8	274.2	295.4	309.3
20°	233.1	242.3	259.4	283.4	300.5
22.5°	214.3	224.7	243.5	270.6	291.0
25°	196.0	205.9	226.7	257.4	280.6
27.5°	176.8	187.2	209.9	243.9	269.4
30°	157.3	168.4	192.4	229.9	257.8
32.5°	137.7	149.3	175.2	215.5	246.3
35°	117.3	130.1	158.5	200.8	233.9
37.5°	98.2	111.8	141.3	185.6	220.7
40°	78.6	92.6	124.5	170.8	207.5
42.5°	59.5	73.8	107.4	155.7	194.4
45°	42.7	55.9	90.2	140.9	179.6
47.5°	32.7	40.3	74.2	125.7	166.4
50°	28.7	31.1	59.1	111.0	151.7
52.5°	25.1	26.7	43.9	96.6	138.9
55°	21.6	22.8	31.9	83.0	125.7
57.5°	18.4	19.6	24.3	70.6	112.2
60°	15.2	16.4	20.4	58.3	97.8
62.5°	12.8	13.2	18.4	46.7	81.8
65°	10.0	10.8	16.4	35.1	66.3
67.5°	8.4	8.8	14.4	25.1	51.1
70°	6.8	7.2	12.4	17.6	36.3
72.5°	6.0	6.0	10.4	12.8	23.1
75°	4.8	5.6	8.4	9.2	12.0
77.5°	4.0	5.6	7.2	6.8	6.4
80°	3.2	5.2	5.6	5.6	5.2
82.5°	2.8	4.4	4.8	4.4	4.0
85°	2.0	3.6	3.6	3.6	2.8
87.5°	1.6	3.2	2.8	2.8	2.0
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1062077
 CATALOG NUMBER: S125RDRP-H375D950-X4F0-XX-UDD-SVL-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	2.72	4.07	3.09	4.38	4.70	12.41	13.76	12.77	14.07	14.38
	3H	3.56	4.76	3.94	5.09	5.45	13.32	14.52	13.70	14.85	15.21
	4H	3.92	5.04	4.32	5.39	5.77	13.42	14.54	13.82	14.89	15.27
	6H	4.29	5.32	4.71	5.69	6.08	13.40	14.43	13.82	14.80	15.19
	8H	4.47	5.45	4.90	5.84	6.24	13.39	14.37	13.82	14.76	15.16
	12H	4.64	5.57	5.07	5.95	6.38	13.38	14.31	13.81	14.69	15.12
4H	2H	3.55	4.67	3.95	5.02	5.40	12.26	13.38	12.66	13.73	14.11
	3H	4.61	5.52	5.02	5.93	6.33	13.25	14.16	13.66	14.57	14.97
	4H	5.06	5.88	5.50	6.30	6.74	13.38	14.20	13.81	14.61	15.06
	6H	5.62	6.33	6.08	6.77	7.24	13.41	14.12	13.87	14.56	15.03
	8H	5.88	6.54	6.35	6.99	7.46	13.41	14.07	13.88	14.52	14.99
	12H	6.12	6.71	6.61	7.19	7.66	13.42	14.00	13.91	14.49	14.96
8H	4H	5.62	6.28	6.09	6.72	7.19	13.30	13.96	13.77	14.41	14.88
	6H	6.40	6.94	6.90	7.43	7.91	13.36	13.90	13.86	14.40	14.88
	8H	6.81	7.30	7.33	7.81	8.30	13.39	13.88	13.91	14.39	14.88
	12H	7.23	7.66	7.74	8.15	8.72	13.45	13.87	13.96	14.37	14.94
12H	4H	5.68	6.26	6.16	6.74	7.22	13.27	13.85	13.75	14.33	14.81
	6H	6.54	7.02	7.06	7.54	8.03	13.33	13.81	13.85	14.33	14.82
	8H	7.07	7.50	7.58	7.99	8.56	13.39	13.82	13.91	14.32	14.89