

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: P1061644

Luminaire Tested: S125RDRP-S375D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S375D930-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

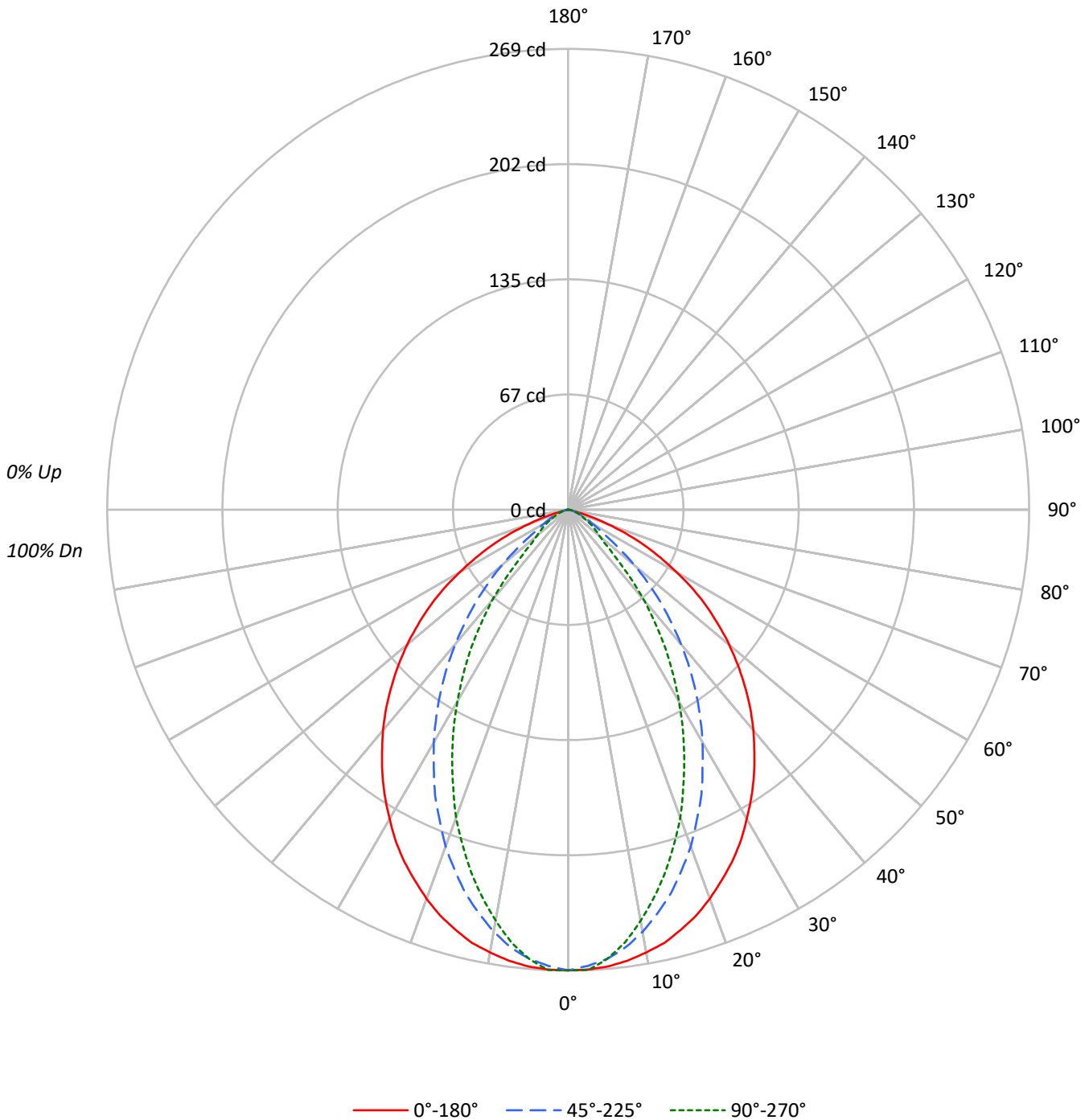
Lumens per Lamp: N/A
Luminaire Lumens: 388.9 lumens
Efficiency: N/A
Efficacy: 31.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
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: P1061644

CATALOG NUMBER: S125RDRP-S375D930-X4F0-XX-UDD-SVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1061644

CATALOG NUMBER: S125RDRP-S375D930-X4F0-XX-UDD-SVL-B

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1851	1851	1851
5°	1850	1818	1818
10°	1835	1749	1703
15°	1810	1652	1561
20°	1770	1532	1402
25°	1721	1396	1218
30°	1657	1247	1027
35°	1589	1091	833
40°	1511	921	617
45°	1421	739	373
50°	1314	542	256
55°	1186	333	214
60°	1007	226	169
65°	797	173	134
70°	501	125	111
75°	165	90	90
80°	56	67	83
85°	24	55	55

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1421 cd/sqm



TEST NUMBER: P1061644

CATALOG NUMBER: S125RDRP-S375D930-X4F0-XX-UDD-SVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.9	6.4
10°-20°	65.7	16.9
20°-30°	86.4	22.2
30°-40°	84.9	21.8
40°-50°	64.2	16.5
50°-60°	38.9	10.0
60°-70°	18.4	4.7
70°-80°	4.8	1.2
80°-90°	0.7	0.2
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°	177.0	45.5
0°-40°	261.9	67.3
0°-60°	365.0	93.9
0°-90°	388.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	388.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	269	269	269	269	269	
5°	268	267	263	264	263	25
15°	254	247	232	223	219	72
25°	226	210	184	167	160	104
35°	189	164	130	107	99	118
45°	146	115	76	48	38	112
55°	99	68	28	19	18	88
65°	49	25	11	9	8	48
75°	6	4	3	3	3	10
85°	0	0	1	1	1	0
90°	0	0	0	0	0	



TEST NUMBER: P1061644

CATALOG NUMBER: S125RDRP-S375D930-X4F0-XX-UDD-SVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	268.9	268.9	268.9	268.9	268.9
2.5°	268.6	268.6	266.5	268.9	268.9
5°	267.6	266.9	263.1	263.5	263.1
7.5°	265.5	264.1	257.6	255.9	254.6
10°	262.4	259.7	250.1	246.0	243.6
12.5°	259.0	254.2	241.2	235.4	231.7
15°	253.9	247.1	231.7	222.8	219.0
17.5°	248.4	238.5	220.4	209.8	205.0
20°	241.6	230.0	209.1	196.1	191.4
22.5°	234.1	220.4	196.1	181.8	175.3
25°	226.5	209.5	183.8	166.8	160.3
27.5°	218.0	198.5	169.8	152.1	144.9
30°	208.4	187.6	156.8	138.4	129.2
32.5°	198.9	176.3	143.2	123.0	113.8
35°	189.0	163.7	129.8	107.0	99.1
37.5°	178.4	151.7	116.2	92.3	83.0
40°	168.1	139.8	102.5	77.2	68.7
42.5°	157.2	127.8	88.8	62.5	53.0
45°	145.9	114.8	75.9	48.2	38.3
47.5°	134.3	103.2	62.9	35.5	28.7
50°	122.7	90.9	50.6	26.3	23.9
52.5°	110.7	78.9	38.3	21.9	20.8
55°	98.8	67.7	27.7	18.8	17.8
57.5°	86.5	55.4	20.8	16.1	15.0
60°	73.1	44.4	16.4	13.3	12.3
62.5°	60.8	34.9	13.3	10.9	10.3
65°	48.9	24.9	10.6	8.9	8.2
67.5°	36.6	16.7	8.2	6.8	6.8
70°	24.9	10.9	6.2	5.5	5.5
72.5°	15.0	6.5	4.4	4.4	4.4
75°	6.2	4.1	3.4	3.4	3.4
77.5°	2.1	2.4	2.4	2.7	2.7
80°	1.4	1.4	1.7	2.1	2.1
82.5°	0.7	1.0	1.0	1.4	1.4
85°	0.3	0.3	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1061644
 CATALOG NUMBER: S125RDRP-S375D930-X4F0-XX-UDD-SVL-B

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	11.47	12.81	11.84	13.12	13.43	2.14	3.47	2.50	3.78	4.09
	3H	12.18	13.36	12.56	13.69	14.05	2.91	4.09	3.29	4.42	4.78
	4H	12.19	13.29	12.60	13.64	14.02	3.16	4.25	3.56	4.60	4.99
	6H	12.13	13.13	12.54	13.50	13.90	3.34	4.34	3.75	4.71	5.11
	8H	12.08	13.04	12.51	13.43	13.83	3.38	4.34	3.81	4.73	5.13
	12H	12.04	12.95	12.48	13.34	13.77	3.39	4.30	3.83	4.69	5.12
4H	2H	11.31	12.40	11.71	12.75	13.13	2.62	3.72	3.02	4.07	4.45
	3H	12.05	12.94	12.46	13.34	13.75	3.53	4.42	3.94	4.82	5.22
	4H	12.07	12.86	12.50	13.28	13.72	3.83	4.63	4.27	5.05	5.49
	6H	12.01	12.69	12.47	13.14	13.60	4.10	4.78	4.56	5.23	5.69
	8H	11.96	12.59	12.42	13.04	13.51	4.17	4.80	4.64	5.25	5.72
	12H	11.91	12.47	12.40	12.96	13.43	4.19	4.76	4.68	5.24	5.71
8H	4H	11.95	12.59	12.42	13.03	13.51	3.94	4.58	4.41	5.03	5.50
	6H	11.88	12.39	12.38	12.89	13.37	4.27	4.79	4.77	5.28	5.76
	8H	11.82	12.29	12.34	12.80	13.30	4.38	4.85	4.90	5.36	5.85
	12H	11.78	12.19	12.30	12.69	13.26	4.45	4.86	4.96	5.35	5.92
12H	4H	11.91	12.47	12.39	12.95	13.43	3.92	4.48	4.40	4.96	5.44
	6H	11.82	12.28	12.34	12.80	13.29	4.24	4.70	4.76	5.22	5.71
	8H	11.78	12.19	12.30	12.69	13.26	4.38	4.80	4.90	5.29	5.86