

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: P1061486

Luminaire Tested: S125RDRP-S1090D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1090D930-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

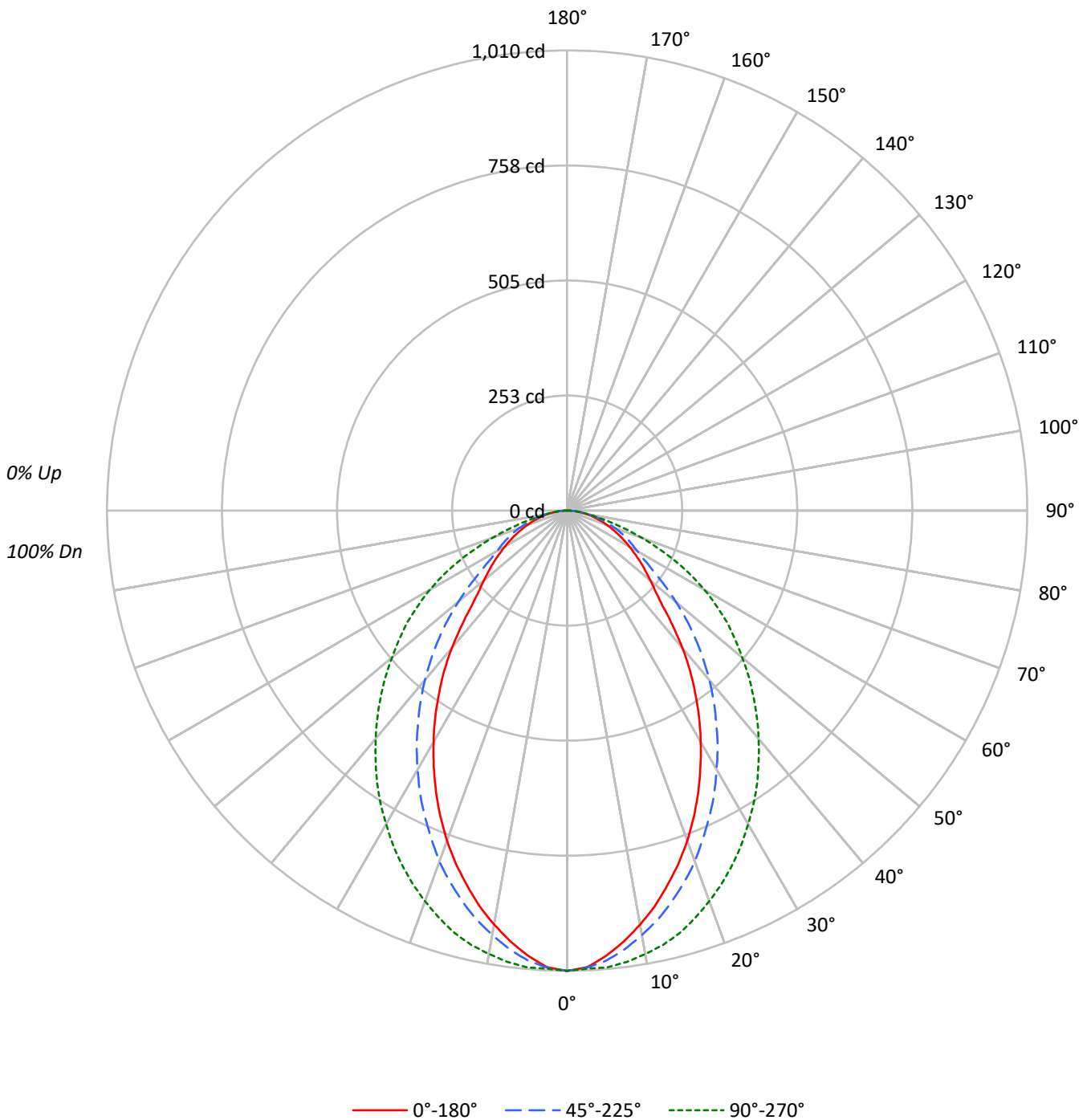
Lumens per Lamp: N/A
Luminaire Lumens: 1894.0 lumens
Efficiency: N/A
Efficacy: 54.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1061486

CATALOG NUMBER: S125RDRP-S1090D930-X4F0-XX-UDD-WVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1061486

CATALOG NUMBER: S125RDRP-S1090D930-X4F0-XX-UDD-WVL-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6956	6956	6956
5°	6780	6850	6955
10°	6450	6612	6908
15°	6065	6331	6834
20°	5650	6005	6685
25°	5176	5620	6517
30°	4662	5215	6315
35°	4123	4794	6117
40°	3538	4364	5878
45°	2889	3882	5631
50°	2562	3330	5373
55°	2350	2762	5150
60°	2169	2446	4795
65°	2022	2351	4275
70°	1890	2235	3495
75°	1745	2094	2578
80°	1642	1963	1879
85°	1517	1912	1596

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5631 cd/sqm



TEST NUMBER: P1061486

CATALOG NUMBER: S125RDRP-S1090D930-X4F0-XX-UDD-WVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	4.9
10°-20°	251.8	13.3
20°-30°	346.1	18.3
30°-40°	366.8	19.4
40°-50°	320.2	16.9
50°-60°	243.3	12.8
60°-70°	163.0	8.6
70°-80°	84.0	4.4
80°-90°	25.2	1.3
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°	691.5	36.5
0°-40°	1058.3	55.9
0°-60°	1621.8	85.6
0°-90°	1894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	981	991	991	998	1006	92
15°	851	867	888	928	959	239
25°	681	702	740	801	858	312
35°	490	519	570	651	728	306
45°	297	326	399	494	578	234
55°	196	202	230	338	429	176
65°	124	127	144	193	262	123
75°	66	70	79	84	97	70
85°	19	24	24	22	20	22
90°	0	0	0	0	0	



TEST NUMBER: P1061486

CATALOG NUMBER: S125RDRP-S1090D930-X4F0-XX-UDD-WVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1010.3	1010.3	1010.3	1010.3	1010.3
2.5°	1003.2	1010.3	1004.2	1004.2	1006.3
5°	981.0	991.1	991.1	998.2	1006.3
7.5°	953.8	964.9	970.9	987.1	999.2
10°	922.5	934.6	945.7	969.9	988.1
12.5°	889.2	902.3	919.5	950.8	976.0
15°	850.8	867.0	888.2	927.5	958.8
17.5°	812.5	828.6	854.9	901.3	936.6
20°	771.1	788.3	819.5	870.0	912.4
22.5°	726.7	745.9	779.2	836.7	886.2
25°	681.3	702.5	739.8	801.4	857.9
27.5°	633.8	659.1	699.4	765.0	827.6
30°	586.4	611.6	656.0	727.7	794.3
32.5°	539.0	566.2	614.7	690.4	762.0
35°	490.5	518.8	570.3	651.0	727.7
37.5°	443.1	471.3	528.9	612.6	690.4
40°	393.6	422.9	485.5	573.3	654.0
42.5°	343.2	374.4	442.1	532.9	616.7
45°	296.7	326.0	398.7	493.5	578.3
47.5°	262.4	281.6	355.3	453.2	541.0
50°	239.2	249.3	310.9	413.8	501.6
52.5°	216.0	224.1	269.5	373.4	464.3
55°	195.8	201.9	230.1	338.1	429.0
57.5°	175.6	181.7	199.8	302.8	387.6
60°	157.5	162.5	177.6	265.4	348.2
62.5°	140.3	144.3	160.5	230.1	305.8
65°	124.1	127.2	144.3	192.8	262.4
67.5°	108.0	111.0	128.2	157.5	216.0
70°	93.9	94.9	111.0	128.2	173.6
72.5°	79.7	80.7	93.9	104.0	133.2
75°	65.6	69.6	78.7	83.8	96.9
77.5°	53.5	58.5	63.6	65.6	65.6
80°	41.4	47.4	49.5	49.5	47.4
82.5°	30.3	35.3	36.3	34.3	32.3
85°	19.2	24.2	24.2	22.2	20.2
87.5°	9.1	13.1	13.1	12.1	9.1
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1061486
 CATALOG NUMBER: S125RDRP-S1090D930-X4F0-XX-UDD-WVL-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	13.35	14.84	13.71	15.16	15.47	17.27	18.77	17.64	19.08	19.40
	3H	14.92	16.26	15.30	16.59	16.95	18.70	20.04	19.07	20.37	20.73
	4H	15.53	16.79	15.93	17.14	17.52	19.11	20.37	19.51	20.72	21.10
	6H	16.03	17.19	16.44	17.55	17.95	19.33	20.49	19.74	20.86	21.25
	8H	16.20	17.31	16.63	17.70	18.10	19.39	20.49	19.81	20.88	21.28
	12H	16.32	17.38	16.75	17.76	18.19	19.42	20.48	19.85	20.86	21.29
4H	2H	14.08	15.34	14.48	15.69	16.07	17.40	18.66	17.80	19.01	19.39
	3H	15.86	16.91	16.27	17.31	17.71	19.01	20.05	19.42	20.45	20.86
	4H	16.60	17.54	17.03	17.95	18.39	19.54	20.48	19.97	20.89	21.33
	6H	17.23	18.05	17.69	18.49	18.95	19.88	20.70	20.34	21.14	21.60
	8H	17.46	18.23	17.92	18.67	19.14	19.98	20.74	20.44	21.19	21.66
	12H	17.64	18.32	18.12	18.80	19.27	20.05	20.73	20.53	21.21	21.68
8H	4H	17.00	17.76	17.46	18.21	18.67	19.64	20.41	20.11	20.85	21.32
	6H	17.78	18.42	18.28	18.91	19.38	20.08	20.71	20.58	21.21	21.68
	8H	18.11	18.67	18.62	19.18	19.67	20.24	20.81	20.75	21.32	21.81
	12H	18.38	18.88	18.89	19.38	19.94	20.38	20.88	20.89	21.37	21.93
12H	4H	17.04	17.72	17.52	18.20	18.67	19.64	20.33	20.13	20.81	21.28
	6H	17.87	18.43	18.38	18.94	19.43	20.10	20.67	20.61	21.18	21.66
	8H	18.26	18.76	18.77	19.26	19.82	20.31	20.81	20.82	21.30	21.87