

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061508

Luminaire Tested: S125RDR-S1090D950-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D950-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

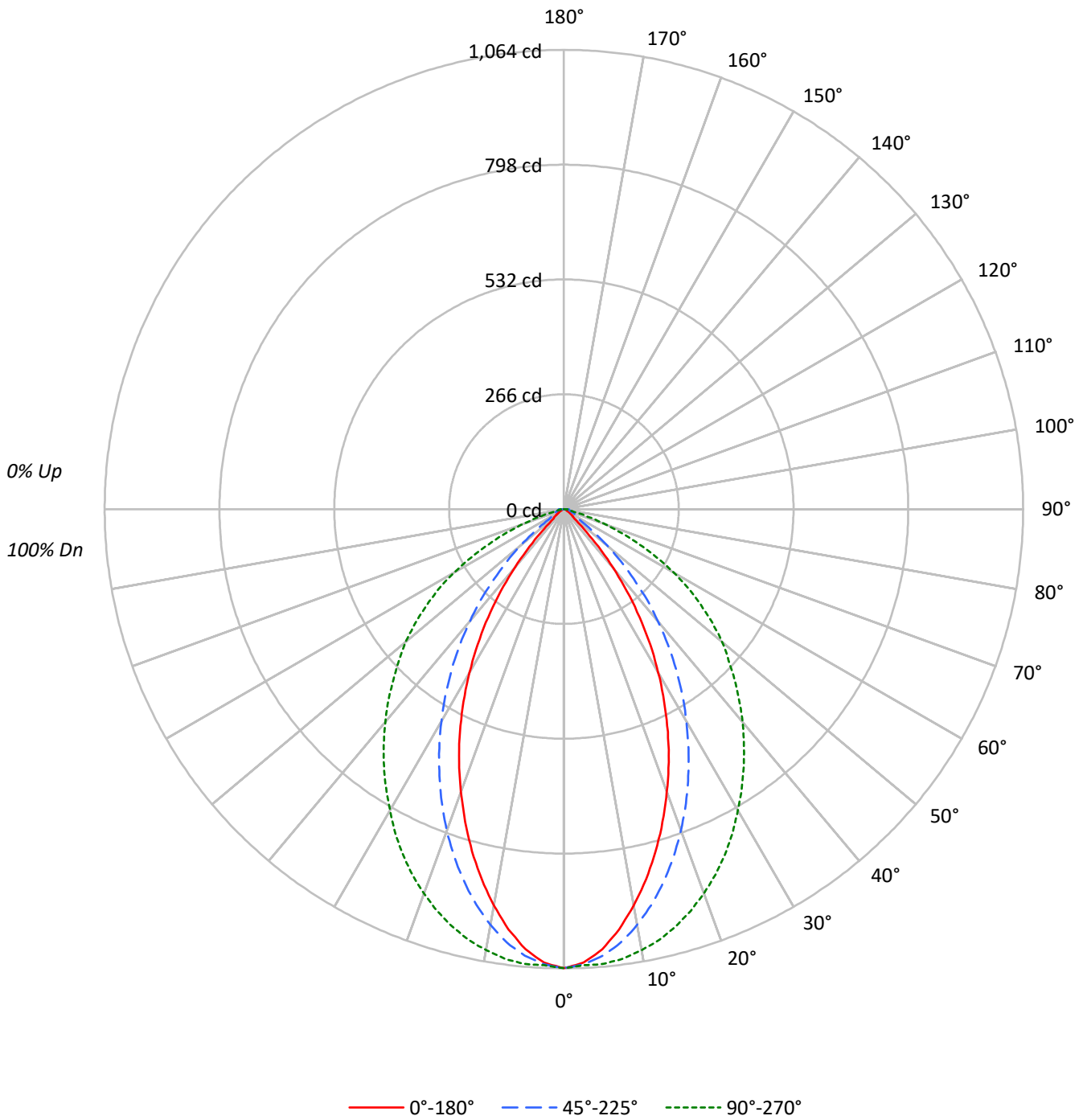
Lumens per Lamp: N/A
Luminaire Lumens: 1375.9 lumens
Efficiency: N/A
Efficacy: 39.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): 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: P1061508

CATALOG NUMBER: S125RDR-S1090D950-X4F0-XX-UDD-BVL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1061508

CATALOG NUMBER: S125RDR-S1090D950-X4F0-XX-UDD-BVL-W

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	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	98	98	96	95	95	93	92	90				
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59				
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53				
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49				
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45				
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41				
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7322	7322	7322
5°	7073	7179	7310
10°	6518	6840	7254
15°	5854	6368	7135
20°	5108	5810	6944
25°	4327	5180	6706
30°	3476	4509	6407
35°	2572	3804	6108
40°	1593	3038	5788
45°	621	2221	5442
50°	291	1392	5127
55°	212	595	4653
60°	146	423	4035
65°	96	443	3138
70°	95	405	1975
75°	125	410	628
80°	186	468	420
85°	276	932	656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5442 cd/sqm

TEST NUMBER: P1061508

CATALOG NUMBER: S125RDR-S1090D950-X4F0-XX-UDD-BVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	7.1
10°-20°	252.7	18.4
20°-30°	321.8	23.4
30°-40°	299.6	21.8
40°-50°	206.2	15.0
50°-60°	116.7	8.5
60°-70°	55.1	4.0
70°-80°	17.2	1.3
80°-90°	9.0	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°	672.1	48.8
0°-40°	971.6	70.6
0°-60°	1294.6	94.1
0°-90°	1375.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1375.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1023	1038	1039	1048	1058	95
15°	821	848	893	961	1001	229
25°	570	606	682	796	883	260
35°	306	349	453	607	727	189
45°	64	102	228	412	559	60
55°	18	20	50	238	388	16
65°	6	7	27	85	193	7
75°	5	11	15	16	24	5
85°	4	10	12	11	8	4
90°	0	0	0	0	0	



TEST NUMBER: P1061508

CATALOG NUMBER: S125RDR-S1090D950-X4F0-XX-UDD-BVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1063.5	1063.5	1063.5	1063.5	1063.5
2.5°	1051.7	1062.3	1055.2	1056.4	1057.6
5°	1023.3	1037.5	1038.7	1048.1	1057.6
7.5°	982.0	999.7	1012.7	1035.1	1050.5
10°	932.3	953.6	978.4	1015.0	1037.5
12.5°	879.1	904.0	938.2	990.2	1022.1
15°	821.2	848.4	893.3	960.7	1000.9
17.5°	759.8	790.5	844.9	925.2	976.0
20°	697.2	730.3	792.9	885.1	947.7
22.5°	634.5	668.8	738.5	841.3	917.0
25°	569.6	606.2	681.8	796.4	882.7
27.5°	503.4	541.2	625.1	750.3	846.1
30°	437.2	477.4	567.2	703.1	805.9
32.5°	372.2	412.4	510.5	655.8	766.9
35°	306.0	348.6	452.6	607.4	726.7
37.5°	239.9	286.0	395.9	557.7	685.4
40°	177.2	221.0	338.0	509.3	644.0
42.5°	118.2	160.7	286.0	460.8	601.5
45°	63.8	101.6	228.1	412.4	558.9
47.5°	34.3	54.4	178.4	365.1	517.6
50°	27.2	30.7	130.0	321.4	478.6
52.5°	22.5	24.8	85.1	280.1	433.7
55°	17.7	20.1	49.6	237.5	387.6
57.5°	14.2	16.5	31.9	197.3	342.7
60°	10.6	13.0	30.7	158.3	293.0
62.5°	8.3	9.5	28.4	121.7	241.1
65°	5.9	7.1	27.2	85.1	192.6
67.5°	4.7	5.9	24.8	54.4	144.2
70°	4.7	4.7	20.1	35.4	98.1
72.5°	4.7	8.3	17.7	23.6	59.1
75°	4.7	10.6	15.4	16.5	23.6
77.5°	4.7	11.8	13.0	13.0	13.0
80°	4.7	10.6	11.8	11.8	10.6
82.5°	4.7	9.5	10.6	11.8	9.5
85°	3.5	9.5	11.8	10.6	8.3
87.5°	3.5	9.5	10.6	9.5	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)