

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: P1061447

Luminaire Tested: S125RDR-S1090D835-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061447
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: S125RDR-S1090D835-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

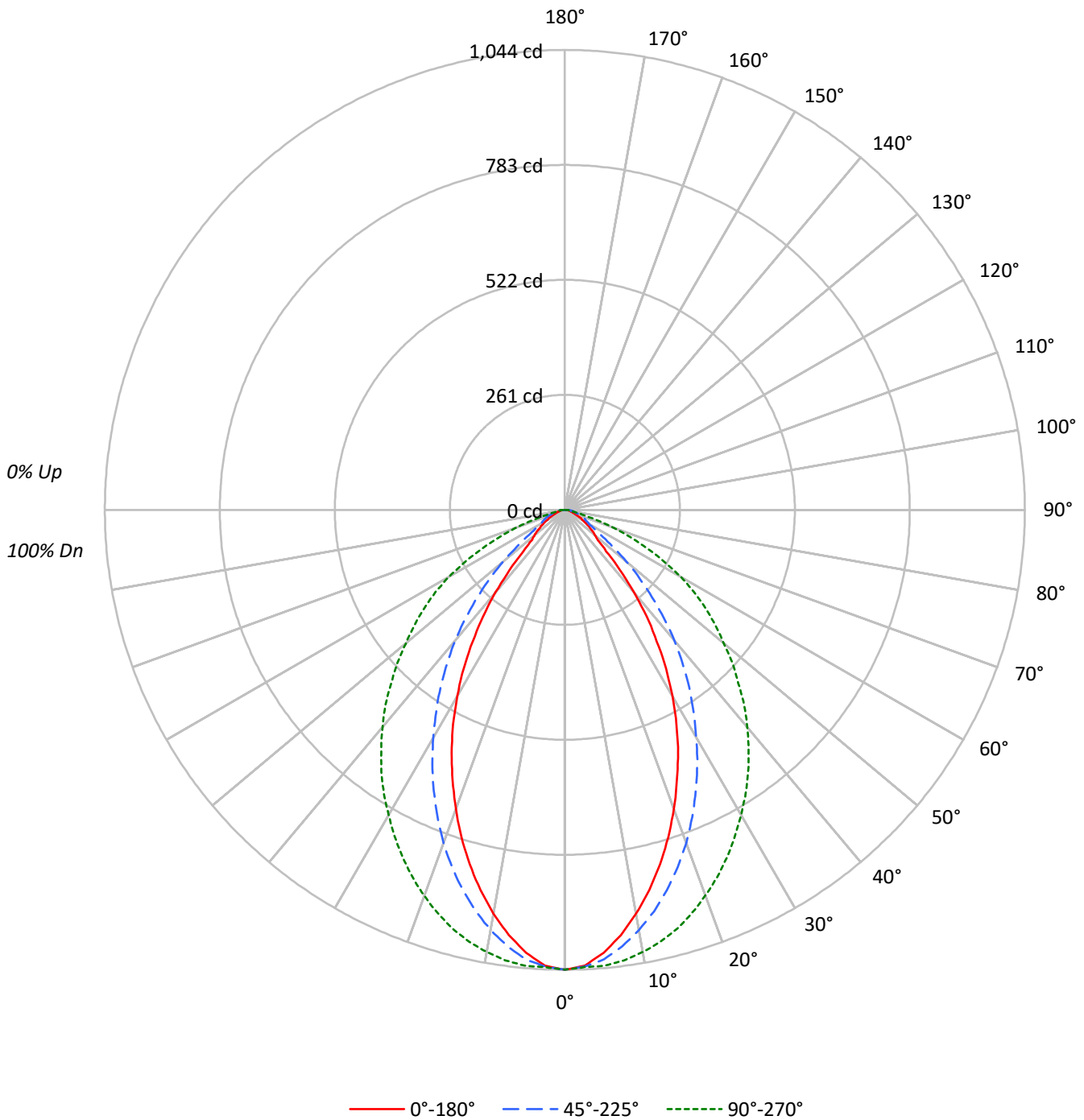
Lumens per Lamp: N/A
Luminaire Lumens: 1507.3 lumens
Efficiency: N/A
Efficacy: 43.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1061447

CATALOG NUMBER: S125RDR-S1090D835-X4F0-XX-UDD-SVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1061447

CATALOG NUMBER: S125RDR-S1090D835-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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79				79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63				63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56				56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7187	7187	7187
5°	6975	7077	7180
10°	6510	6770	7125
15°	5940	6373	7017
20°	5298	5898	6832
25°	4619	5343	6613
30°	3879	4745	6360
35°	3060	4132	6099
40°	2192	3472	5787
45°	1290	2724	5426
50°	955	1963	5040
55°	803	1190	4682
60°	649	870	4178
65°	505	828	3348
70°	425	773	2269
75°	396	692	987
80°	393	686	638
85°	490	877	687

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5426 cd/sqm



TEST NUMBER: P1061447

CATALOG NUMBER: S125RDR-S1090D835-X4F0-XX-UDD-SVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	6.4
10°-20°	252.7	16.8
20°-30°	330.2	21.9
30°-40°	321.4	21.3
40°-50°	240.2	15.9
50°-60°	149.0	9.9
60°-70°	78.3	5.2
70°-80°	28.5	1.9
80°-90°	10.8	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°	679.1	45.1
0°-40°	1000.5	66.4
0°-60°	1389.7	92.2
0°-90°	1507.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1507.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1009	1023	1024	1030	1039	94
15°	833	858	894	948	984	233
25°	608	639	703	799	870	278
35°	364	404	492	623	726	227
45°	132	173	280	437	557	112
55°	67	71	99	258	390	60
65°	31	33	51	109	206	32
75°	15	17	26	28	37	16
85°	6	11	11	11	9	7
90°	0	0	0	0	0	



TEST NUMBER: P1061447

CATALOG NUMBER: S125RDR-S1090D835-X4F0-XX-UDD-SVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1043.8	1043.8	1043.8	1043.8	1043.8
2.5°	1035.2	1043.8	1037.6	1037.6	1038.9
5°	1009.2	1022.8	1024.0	1030.2	1038.9
7.5°	973.3	989.4	999.3	1017.8	1031.5
10°	931.2	949.7	968.3	999.3	1019.1
12.5°	884.1	906.4	933.6	975.7	1004.2
15°	833.3	858.1	894.0	948.5	984.4
17.5°	780.1	806.1	850.7	916.3	959.6
20°	723.1	751.6	804.9	879.2	932.4
22.5°	664.9	697.1	755.3	839.5	902.7
25°	608.0	638.9	703.3	798.7	870.5
27.5°	548.5	580.7	651.3	756.6	835.8
30°	487.9	522.5	596.8	713.2	799.9
32.5°	427.2	463.1	543.6	668.7	764.0
35°	364.0	403.7	491.6	622.8	725.6
37.5°	304.6	346.7	438.3	575.8	684.7
40°	243.9	287.3	386.3	530.0	643.9
42.5°	184.5	229.1	333.1	482.9	603.0
45°	132.5	173.4	279.8	437.1	557.2
47.5°	101.5	125.1	230.3	390.0	516.3
50°	89.2	96.6	183.3	344.2	470.5
52.5°	78.0	83.0	136.2	299.7	430.9
55°	66.9	70.6	99.1	257.6	390.0
57.5°	57.0	60.7	75.5	219.2	347.9
60°	47.1	50.8	63.2	180.8	303.4
62.5°	39.6	40.9	57.0	144.9	253.8
65°	31.0	33.4	50.8	109.0	205.5
67.5°	26.0	27.2	44.6	78.0	158.5
70°	21.1	22.3	38.4	54.5	112.7
72.5°	18.6	18.6	32.2	39.6	71.8
75°	14.9	17.3	26.0	28.5	37.1
77.5°	12.4	17.3	22.3	21.1	19.8
80°	9.9	16.1	17.3	17.3	16.1
82.5°	8.7	13.6	14.9	13.6	12.4
85°	6.2	11.1	11.1	11.1	8.7
87.5°	5.0	9.9	8.7	8.7	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)