

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: P1058069

Luminaire Tested: S122RDR-S675D927-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-60)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D927-X4F0-XX-UDD-BVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

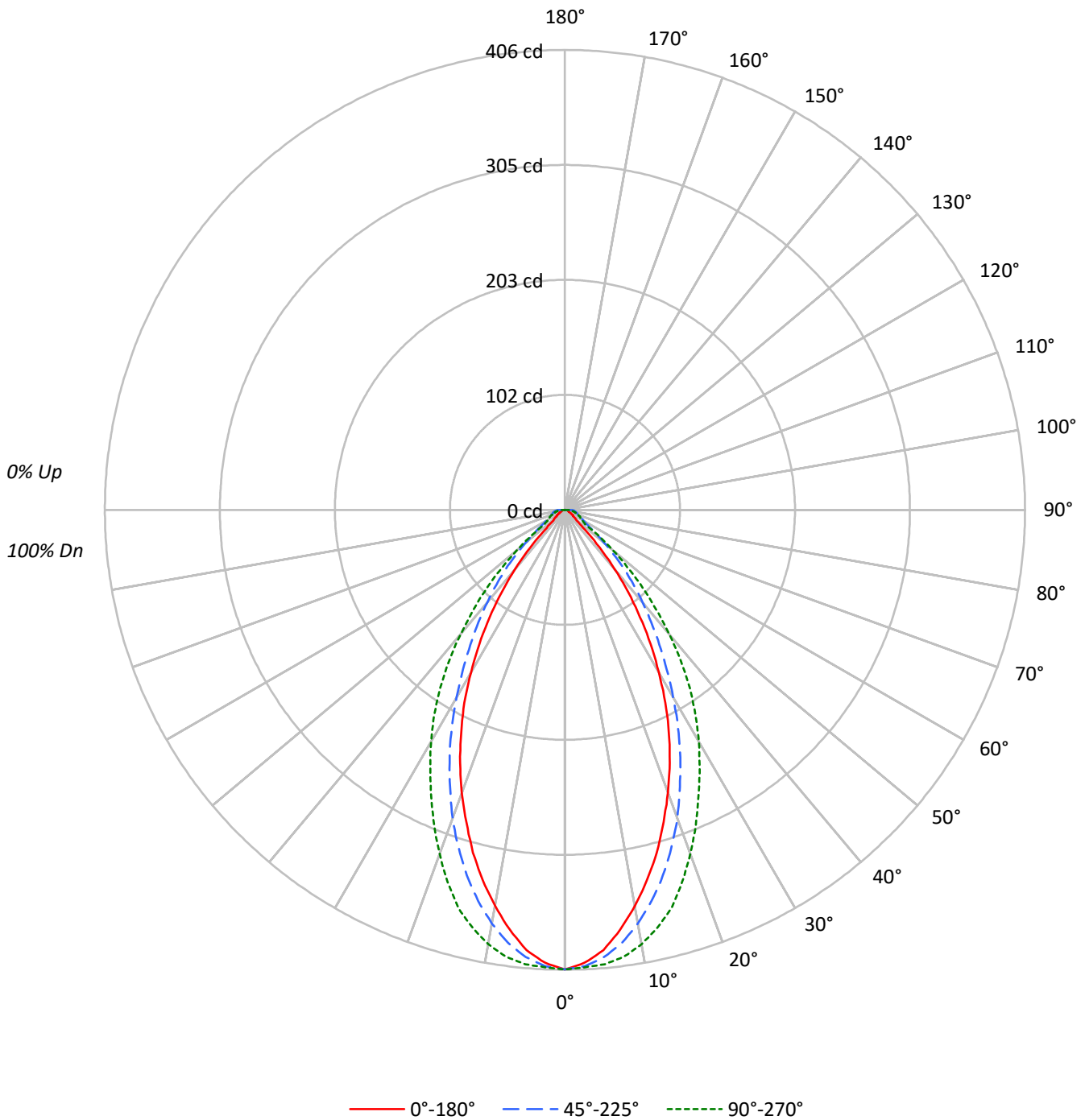
Lumens per Lamp: N/A
Luminaire Lumens: 437.3 lumens
Efficiency: N/A
Efficacy: 16.9 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.95 / 0.9
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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: P1058069

CATALOG NUMBER: S122RDR-S675D927-X4F0-XX-UDD-BVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1058069

CATALOG NUMBER: S122RDR-S675D927-X4F0-XX-UDD-BVL-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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61
6	82	72	65	60	80	71	64	59	69	63	59	68	63	59	66	62	58	57
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7486	7486	7486
5°	7226	7341	7457
10°	6654	6946	7294
15°	5983	6384	6948
20°	5219	5693	6349
25°	4414	4905	5680
30°	3526	4074	5033
35°	2609	3273	4325
40°	1648	2565	3445
45°	650	1926	2534
50°	336	1295	1562
55°	273	849	701
60°	199	690	631
65°	170	646	646
70°	167	669	631
75°	221	777	663
80°	329	988	744
85°	487	1651	995

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 87.5°
 Luminance: 3300 cd/sqm



TEST NUMBER: P1058069

CATALOG NUMBER: S122RDR-S675D927-X4F0-XX-UDD-BVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	8.5
10°-20°	93.7	21.4
20°-30°	111.4	25.5
30°-40°	92.6	21.2
40°-50°	51.7	11.8
50°-60°	20.9	4.8
60°-70°	13.4	3.1
70°-80°	10.0	2.3
80°-90°	6.4	1.5
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°	242.2	55.4
0°-40°	334.8	76.6
0°-60°	407.5	93.2
0°-90°	437.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	437.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	406	406	406	406	406	
5°	390	397	396	399	403	36
15°	313	322	334	351	364	87
25°	217	225	241	260	279	99
35°	116	127	145	169	192	72
45°	25	42	74	86	97	23
55°	8	18	26	26	22	7
65°	4	16	15	14	15	4
75°	3	11	11	10	9	3
85°	2	7	8	7	5	3
90°	0	0	0	0	0	



TEST NUMBER: P1058069

CATALOG NUMBER: S122RDR-S675D927-X4F0-XX-UDD-BVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	405.7	405.7	405.7	405.7	405.7
2.5°	400.2	406.4	403.3	403.3	404.1
5°	390.1	397.1	396.3	399.4	402.6
7.5°	373.8	381.6	385.5	392.5	397.9
10°	355.1	363.7	370.7	381.6	389.3
12.5°	334.9	343.5	353.6	367.6	377.7
15°	313.2	322.5	334.2	351.3	363.7
17.5°	289.1	299.2	312.4	331.1	344.3
20°	265.8	275.9	289.9	308.5	323.3
22.5°	241.7	250.2	265.0	283.7	301.5
25°	216.8	225.4	240.9	259.6	279.0
27.5°	192.0	200.5	216.0	235.5	257.2
30°	165.5	174.9	191.2	212.9	236.2
32.5°	140.7	150.0	167.1	191.2	214.5
35°	115.8	126.7	145.3	169.4	192.0
37.5°	91.7	104.1	125.1	147.7	167.9
40°	68.4	81.6	106.5	125.9	143.0
42.5°	45.1	60.6	89.4	105.7	118.9
45°	24.9	42.0	73.8	86.3	97.1
47.5°	14.0	27.2	58.3	68.4	74.6
50°	11.7	20.2	45.1	52.1	54.4
52.5°	9.3	18.7	34.2	38.1	36.5
55°	8.5	17.9	26.4	25.6	21.8
57.5°	7.0	17.9	21.0	18.7	18.7
60°	5.4	17.1	18.7	16.3	17.1
62.5°	4.7	16.3	17.1	15.5	15.5
65°	3.9	15.5	14.8	14.0	14.8
67.5°	3.1	14.0	14.0	13.2	13.2
70°	3.1	13.2	12.4	11.7	11.7
72.5°	3.1	11.7	11.7	10.9	10.9
75°	3.1	10.9	10.9	10.1	9.3
77.5°	3.1	9.3	10.1	9.3	8.5
80°	3.1	8.5	9.3	8.5	7.0
82.5°	3.1	7.8	8.5	7.8	6.2
85°	2.3	7.0	7.8	7.0	4.7
87.5°	2.3	7.0	7.8	6.2	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)