

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: P1058075

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-58)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D927-X4F0-XX-UDD-WVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

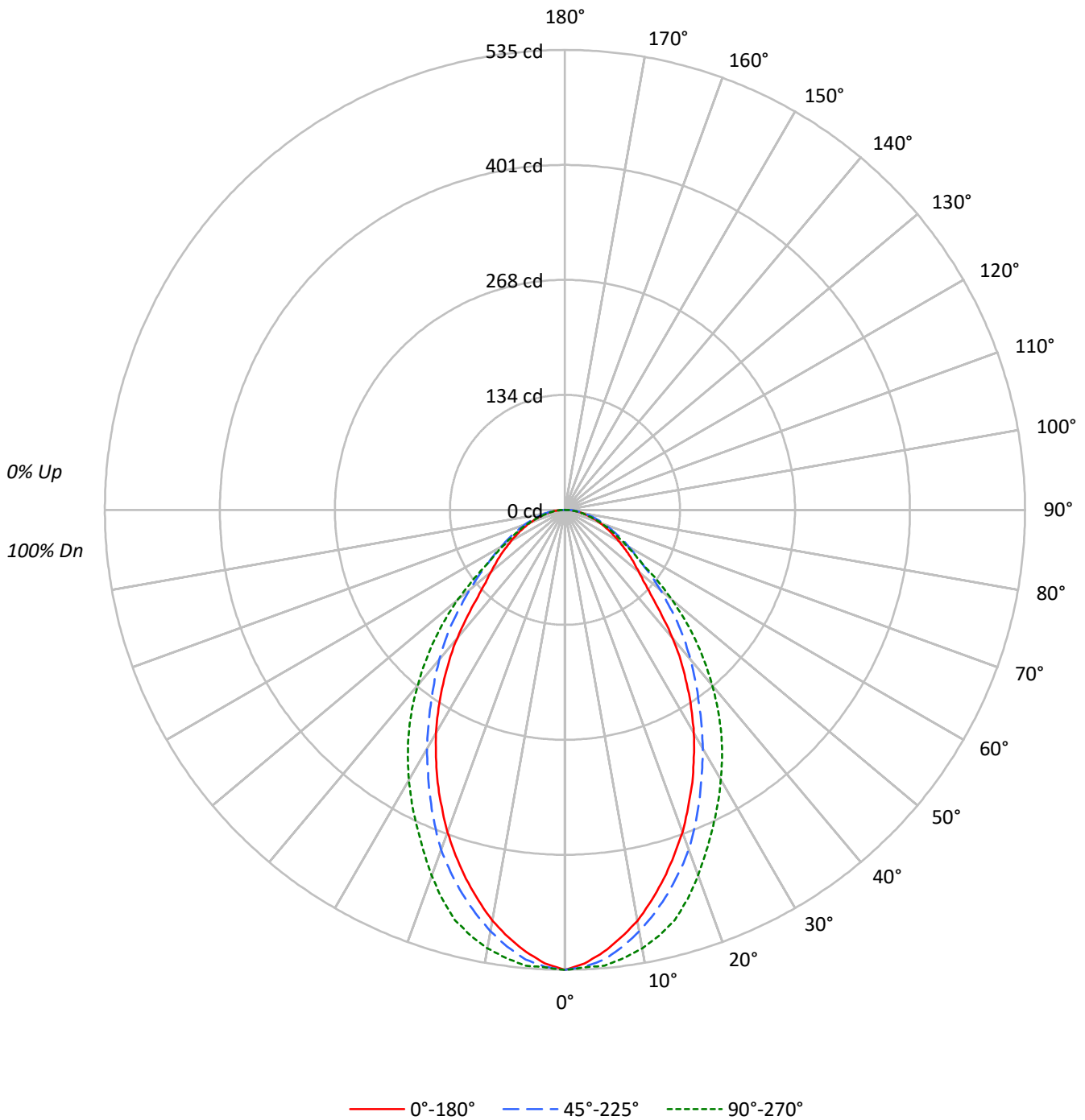
Lumens per Lamp: N/A
Luminaire Lumens: 871.3 lumens
Efficiency: N/A
Efficacy: 33.8 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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: P1058075

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

Luminous Intensity Polar Plot





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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	79	84	80	78	76				
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66				
4	88	77	69	63	85	76	69	63	73	67	62	71	66	61	69	64	61	59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43				
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36				
10	59	47	40	35	58	46	39	35	45	39	35	45	39	34	44	38	34	33				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9874	9874	9874
5°	9565	9725	9854
10°	9095	9327	9706
15°	8486	8828	9435
20°	7839	8265	8892
25°	7130	7541	8285
30°	6388	6833	7728
35°	5564	6105	7136
40°	4695	5463	6417
45°	3729	4822	5613
50°	3209	4145	4659
55°	2924	3548	3574
60°	2665	3152	3037
65°	2441	2847	2681
70°	2261	2638	2390
75°	2103	2488	2103
80°	1977	2391	1902
85°	1969	2456	1651

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5613 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	5.7
10°-20°	130.6	15.0
20°-30°	171.8	19.7
30°-40°	172.8	19.8
40°-50°	140.0	16.1
50°-60°	96.5	11.1
60°-70°	63.1	7.2
70°-80°	35.2	4.0
80°-90°	11.9	1.4
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°	351.8	40.4
0°-40°	524.6	60.2
0°-60°	761.1	87.4
0°-90°	871.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	871.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	535	535	535	535	535	
5°	516	526	525	527	532	48
15°	444	455	462	479	494	124
25°	350	360	370	387	407	160
35°	247	259	271	295	317	154
45°	143	159	185	201	215	113
55°	91	101	110	113	111	81
65°	56	67	65	62	61	56
75°	30	36	35	31	30	32
85°	9	12	12	10	8	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	535.1	535.1	535.1	535.1	535.1
2.5°	528.1	537.4	532.0	532.0	532.7
5°	516.4	526.5	525.0	527.3	532.0
7.5°	501.7	512.6	512.6	519.5	525.8
10°	485.4	496.2	497.8	508.7	518.0
12.5°	465.2	476.1	480.7	494.7	507.1
15°	444.2	455.1	462.1	479.2	493.9
17.5°	421.7	432.6	441.9	459.7	474.5
20°	399.2	409.3	420.9	436.4	452.8
22.5°	374.3	385.2	396.1	410.8	429.5
25°	350.2	359.6	370.4	386.7	406.9
27.5°	324.6	334.7	344.8	364.2	385.2
30°	299.8	309.9	320.7	340.9	362.7
32.5°	273.4	284.2	295.1	317.6	340.1
35°	247.0	258.6	271.0	295.1	316.8
37.5°	221.3	233.8	248.5	273.4	292.0
40°	194.9	208.1	226.8	248.5	266.4
42.5°	167.0	183.3	205.8	224.4	240.7
45°	142.9	159.2	184.8	201.1	215.1
47.5°	125.0	138.2	163.1	177.1	188.7
50°	111.8	121.9	144.4	154.5	162.3
52.5°	101.0	111.1	126.6	133.6	135.9
55°	90.9	101.0	110.3	112.6	111.1
57.5°	80.8	91.6	97.1	94.7	94.7
60°	72.2	83.9	85.4	82.3	82.3
62.5°	63.7	75.3	75.3	71.4	71.4
65°	55.9	66.8	65.2	62.1	61.4
67.5°	48.9	59.0	56.7	53.6	52.8
70°	41.9	51.3	48.9	45.0	44.3
72.5°	35.7	44.3	41.2	38.1	36.5
75°	29.5	36.5	34.9	31.1	29.5
77.5°	24.1	29.5	28.0	24.9	23.3
80°	18.6	23.3	22.5	19.4	17.9
82.5°	14.0	17.9	17.1	14.8	12.4
85°	9.3	12.4	11.6	10.1	7.8
87.5°	4.7	8.5	7.8	7.0	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)