

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: P1058072

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-59)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D927-X4F0-XX-UDD-SVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

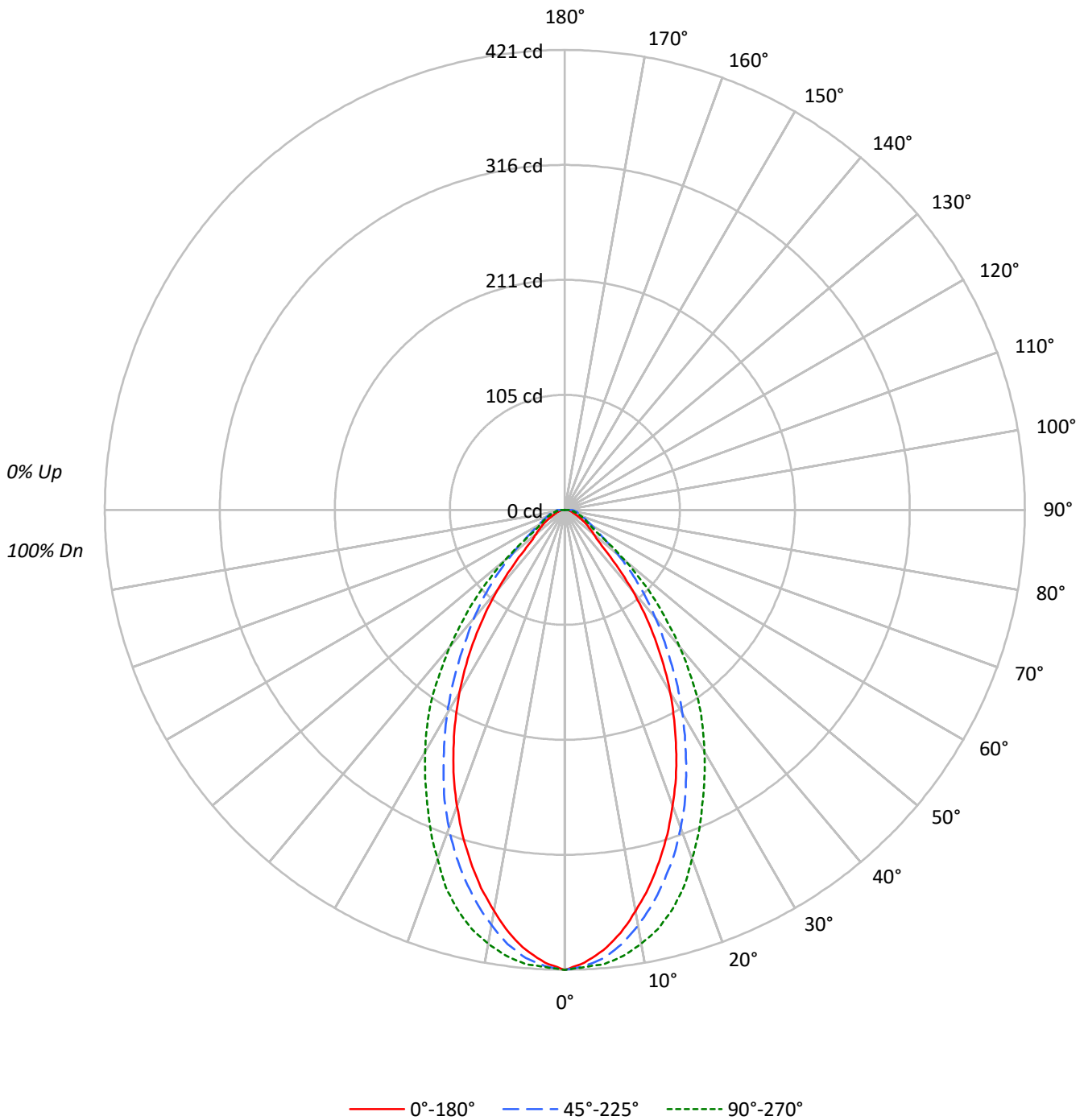
Lumens per Lamp: N/A
Luminaire Lumens: 508.1 lumens
Efficiency: N/A
Efficacy: 19.7 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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

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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				100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65				65
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59				59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54				54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50				50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46				46
9	67	56	49	45	66	56	49	44	55	49	44	54	48	44	53	48	44	42				42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39				39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7770	7770	7770
5°	7498	7628	7730
10°	6989	7236	7557
15°	6367	6709	7244
20°	5661	6087	6682
25°	4905	5347	6059
30°	4106	4585	5446
35°	3237	3798	4796
40°	2320	3107	3931
45°	1360	2453	3043
50°	982	1786	2053
55°	824	1274	1075
60°	661	1033	919
65°	541	917	847
70°	459	879	798
75°	442	941	777
80°	499	1158	829
85°	826	1800	1143

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3043 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	7.6
10°-20°	98.9	19.5
20°-30°	121.5	23.9
30°-40°	107.4	21.1
40°-50°	68.6	13.5
50°-60°	33.5	6.6
60°-70°	19.9	3.9
70°-80°	12.7	2.5
80°-90°	7.0	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°	259.0	51.0
0°-40°	366.4	72.1
0°-60°	468.4	92.2
0°-90°	508.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	508.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	421	421	421	421	421	
5°	405	413	412	413	417	38
15°	333	343	351	367	379	93
25°	241	249	263	279	298	110
35°	144	152	169	192	213	89
45°	52	67	94	106	117	44
55°	26	34	40	37	33	23
65°	12	23	21	19	19	12
75°	6	14	13	12	11	7
85°	4	8	8	8	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	421.1	421.1	421.1	421.1	421.1
2.5°	414.9	422.7	418.0	418.0	418.8
5°	404.8	413.4	411.8	413.4	417.3
7.5°	390.8	399.4	400.9	407.2	411.8
10°	373.0	381.5	386.2	396.3	403.3
12.5°	354.3	362.9	369.9	383.1	393.2
15°	333.3	342.7	351.2	366.8	379.2
17.5°	311.6	320.9	331.8	347.3	362.1
20°	288.3	296.8	310.0	324.8	340.3
22.5°	265.7	273.5	287.5	301.5	320.1
25°	240.9	249.4	262.6	278.9	297.6
27.5°	216.8	225.3	238.5	257.2	276.6
30°	192.7	200.5	215.2	234.7	255.6
32.5°	167.8	175.6	191.9	212.9	234.7
35°	143.7	151.5	168.6	191.9	212.9
37.5°	119.7	128.2	147.6	169.4	187.3
40°	96.3	106.5	129.0	147.6	163.2
42.5°	73.0	87.0	111.1	126.7	139.1
45°	52.1	66.8	94.0	105.7	116.6
47.5°	39.6	51.3	77.7	86.2	93.2
50°	34.2	42.0	62.2	68.4	71.5
52.5°	29.5	37.3	49.7	52.1	50.5
55°	25.6	34.2	39.6	37.3	33.4
57.5°	21.8	31.9	32.6	28.0	28.7
60°	17.9	28.7	28.0	24.1	24.9
62.5°	14.8	26.4	24.1	21.8	21.8
65°	12.4	23.3	21.0	19.4	19.4
67.5°	10.1	21.0	18.6	17.1	17.1
70°	8.5	18.6	16.3	14.8	14.8
72.5°	7.8	16.3	14.8	13.2	13.2
75°	6.2	14.0	13.2	11.7	10.9
77.5°	5.4	11.7	11.7	10.9	9.3
80°	4.7	10.1	10.9	9.3	7.8
82.5°	4.7	9.3	9.3	8.5	6.2
85°	3.9	7.8	8.5	7.8	5.4
87.5°	2.3	7.0	7.0	6.2	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)