

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: P1058111

Luminaire Tested: S122RDR-S675D950-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058111
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-S675D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

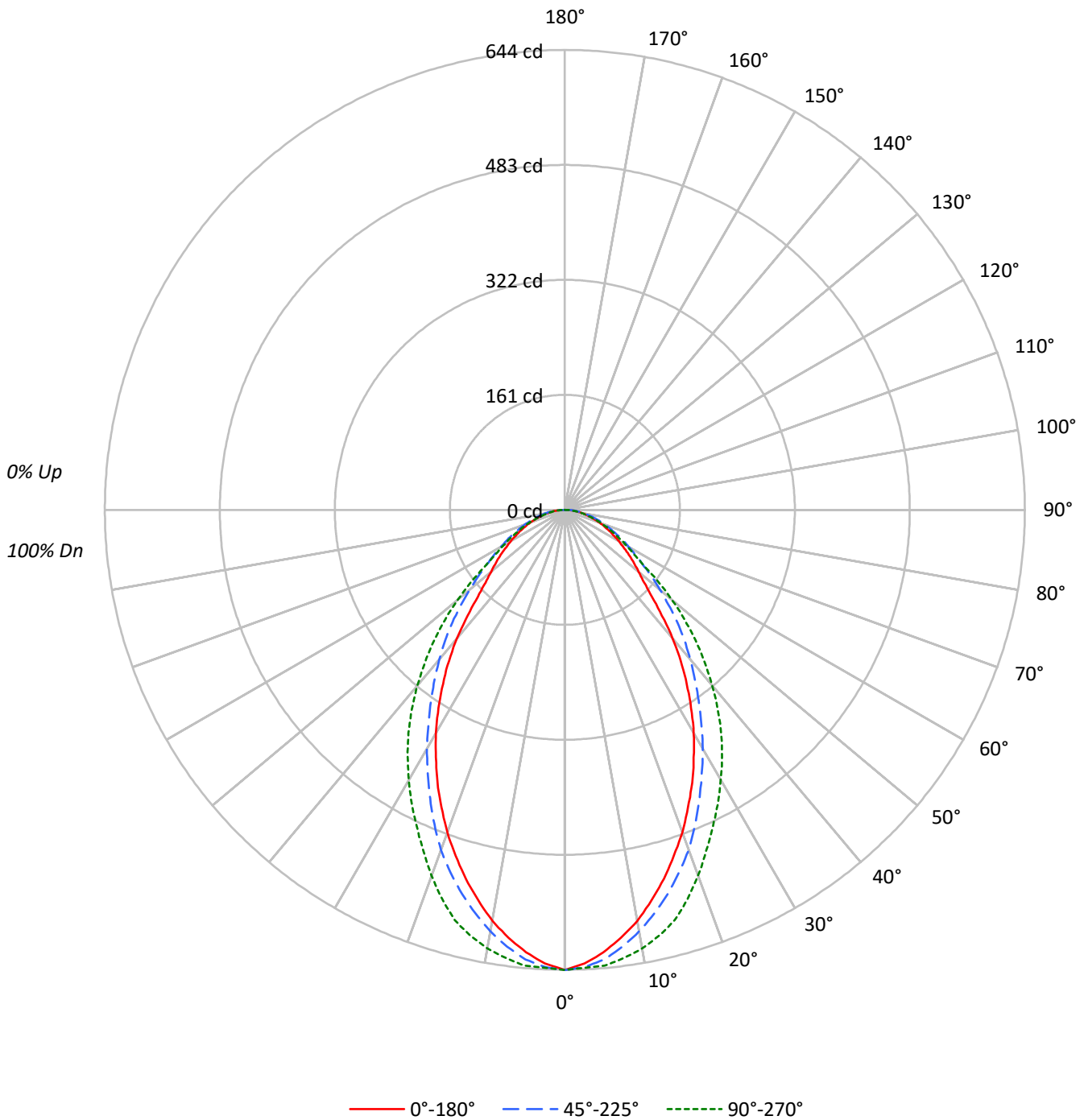
Lumens per Lamp: N/A
Luminaire Lumens: 1049.3 lumens
Efficiency: N/A
Efficacy: 40.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	11891	11891	11891
5°	11519	11710	11866
10°	10952	11233	11688
15°	10220	10631	11363
20°	9439	9954	10706
25°	8588	9083	9978
30°	7692	8229	9307
35°	6699	7353	8596
40°	5653	6578	7727
45°	4491	5809	6761
50°	3867	4995	5612
55°	3519	4272	4301
60°	3211	3798	3657
65°	2938	3432	3227
70°	2725	3178	2876
75°	2531	3002	2531
80°	2380	2880	2285
85°	2371	2964	1990

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6761 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	5.7
10°-20°	157.2	15.0
20°-30°	206.9	19.7
30°-40°	208.1	19.8
40°-50°	168.6	16.1
50°-60°	116.2	11.1
60°-70°	76.0	7.2
70°-80°	42.4	4.0
80°-90°	14.3	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°	423.7	40.4
0°-40°	631.8	60.2
0°-60°	916.6	87.4
0°-90°	1049.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1049.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	644	644	644	644	644	
5°	622	634	632	635	641	58
15°	535	548	556	577	595	150
25°	422	433	446	466	490	193
35°	297	311	326	355	382	185
45°	172	192	223	242	259	136
55°	109	122	133	136	134	98
65°	67	80	79	75	74	67
75°	36	44	42	37	36	38
85°	11	15	14	12	9	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	644.4	644.4	644.4	644.4	644.4
2.5°	636.0	647.2	640.6	640.6	641.6
5°	621.9	634.1	632.2	635.0	640.6
7.5°	604.2	617.3	617.3	625.7	633.1
10°	584.5	597.6	599.5	612.6	623.8
12.5°	560.2	573.3	578.9	595.7	610.7
15°	535.0	548.0	556.5	577.0	594.8
17.5°	507.8	520.9	532.1	553.7	571.4
20°	480.7	492.9	506.9	525.6	545.2
22.5°	450.8	463.9	477.0	494.7	517.2
25°	421.8	433.0	446.1	465.7	490.1
27.5°	390.9	403.1	415.2	438.6	463.9
30°	361.0	373.2	386.2	410.6	436.8
32.5°	329.2	342.3	355.4	382.5	409.6
35°	297.4	311.4	326.4	355.4	381.6
37.5°	266.5	281.5	299.3	329.2	351.6
40°	234.7	250.6	273.1	299.3	320.8
42.5°	201.1	220.7	247.8	270.3	289.9
45°	172.1	191.7	222.6	242.2	259.1
47.5°	150.6	166.5	196.4	213.2	227.3
50°	134.7	146.8	174.0	186.1	195.5
52.5°	121.6	133.7	152.4	160.9	163.7
55°	109.4	121.6	132.8	135.6	133.7
57.5°	97.3	110.4	116.9	114.1	114.1
60°	87.0	101.0	102.9	99.1	99.1
62.5°	76.7	90.7	90.7	86.0	86.0
65°	67.3	80.4	78.6	74.8	73.9
67.5°	58.9	71.1	68.3	64.5	63.6
70°	50.5	61.7	58.9	54.2	53.3
72.5°	43.0	53.3	49.6	45.8	44.0
75°	35.5	44.0	42.1	37.4	35.5
77.5°	29.0	35.5	33.7	29.9	28.1
80°	22.4	28.1	27.1	23.4	21.5
82.5°	16.8	21.5	20.6	17.8	15.0
85°	11.2	15.0	14.0	12.2	9.4
87.5°	5.6	10.3	9.4	8.4	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)