

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: P1058107

Luminaire Tested: S122RDR-S675D950-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-20)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D950-X4F0-XX-UDD-SVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

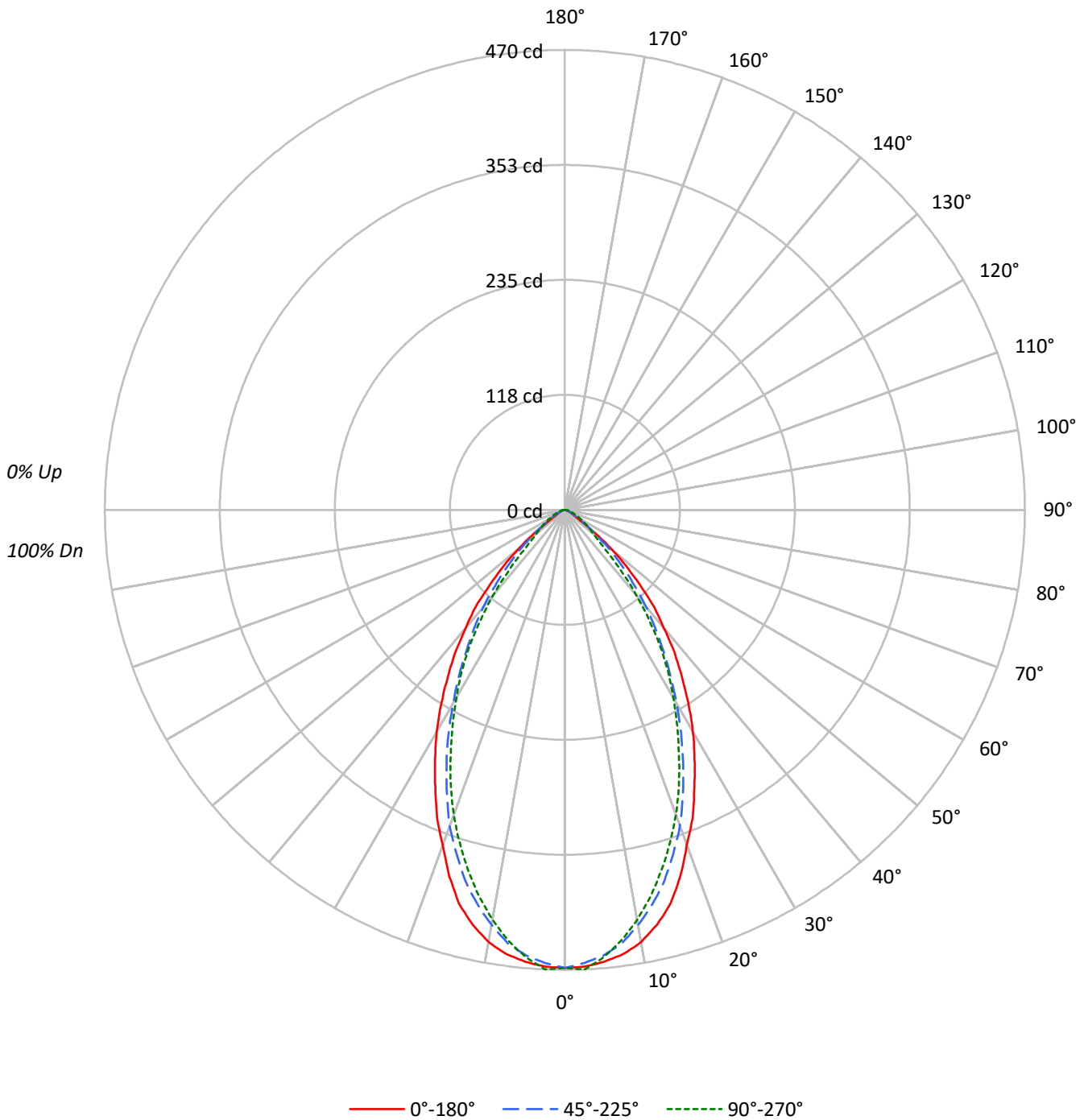
Lumens per Lamp: N/A
Luminaire Lumens: 503.5 lumens
Efficiency: N/A
Efficacy: 19.5 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92				92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84				84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76				76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70				70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64				64
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59				59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54				54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50				50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47				47
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	44				44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8639	8639	8639
5°	8585	8465	8498
10°	8405	8072	7967
15°	7962	7498	7284
20°	7158	6753	6513
25°	6375	5823	5613
30°	5576	4858	4720
35°	4694	3935	3809
40°	3782	3107	2746
45°	2829	2244	1634
50°	1771	1450	1074
55°	602	782	872
60°	343	483	690
65°	245	327	528
70°	200	254	405
75°	135	200	335
80°	96	202	298
85°	0	0	191

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2829 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	8.6
10°-20°	110.5	21.9
20°-30°	133.0	26.4
30°-40°	113.6	22.6
40°-50°	66.6	13.2
50°-60°	24.1	4.8
60°-70°	8.6	1.7
70°-80°	3.4	0.7
80°-90°	0.6	0.1
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°	286.6	56.9
0°-40°	400.3	79.5
0°-60°	490.9	97.5
0°-90°	503.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	503.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	468	468	468	468	468	
5°	464	464	457	459	459	44
15°	417	410	392	385	381	116
25°	313	300	286	281	276	144
35°	208	192	175	173	169	130
45°	108	97	86	72	63	84
55°	19	26	24	25	27	23
65°	6	6	8	10	12	6
75°	2	3	3	4	5	2
85°	0	0	0	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	468.2	468.2	468.2	468.2	468.2
2.5°	467.2	468.2	463.5	468.2	470.0
5°	463.5	464.4	457.0	458.8	458.8
7.5°	457.9	457.0	446.7	444.8	443.9
10°	448.6	445.8	430.8	428.0	425.2
12.5°	434.5	428.9	413.0	408.4	404.6
15°	416.8	410.2	392.5	385.0	381.3
17.5°	392.5	385.0	368.2	360.7	357.0
20°	364.5	357.0	343.9	335.5	331.7
22.5°	341.1	328.9	314.9	309.3	304.6
25°	313.1	300.0	286.0	281.3	275.7
27.5°	286.9	271.0	257.0	253.2	248.6
30°	261.7	244.8	228.0	228.0	221.5
32.5°	234.6	218.7	200.9	200.0	196.2
35°	208.4	192.5	174.7	172.9	169.1
37.5°	184.1	168.2	151.4	145.8	141.1
40°	157.0	143.0	129.0	119.6	114.0
42.5°	135.5	119.6	105.6	94.4	86.9
45°	108.4	97.2	86.0	72.0	62.6
47.5°	84.1	76.6	67.3	51.4	46.7
50°	61.7	57.9	50.5	38.3	37.4
52.5°	39.2	41.1	36.4	29.9	32.7
55°	18.7	26.2	24.3	25.2	27.1
57.5°	12.1	13.1	17.8	20.6	22.4
60°	9.3	9.3	13.1	16.8	18.7
62.5°	7.5	7.5	10.3	14.0	15.0
65°	5.6	6.5	7.5	10.3	12.1
67.5°	4.7	4.7	5.6	8.4	9.3
70°	3.7	3.7	4.7	6.5	7.5
72.5°	2.8	2.8	3.7	5.6	5.6
75°	1.9	2.8	2.8	3.7	4.7
77.5°	1.9	1.9	1.9	2.8	3.7
80°	0.9	0.9	1.9	1.9	2.8
82.5°	0.9	0.9	0.9	0.9	1.9
85°	0.0	0.0	0.0	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)