

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: P1058086

Luminaire Tested: S122RDR-S675D935-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-21)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D935-X4F0-XX-UDD-BVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

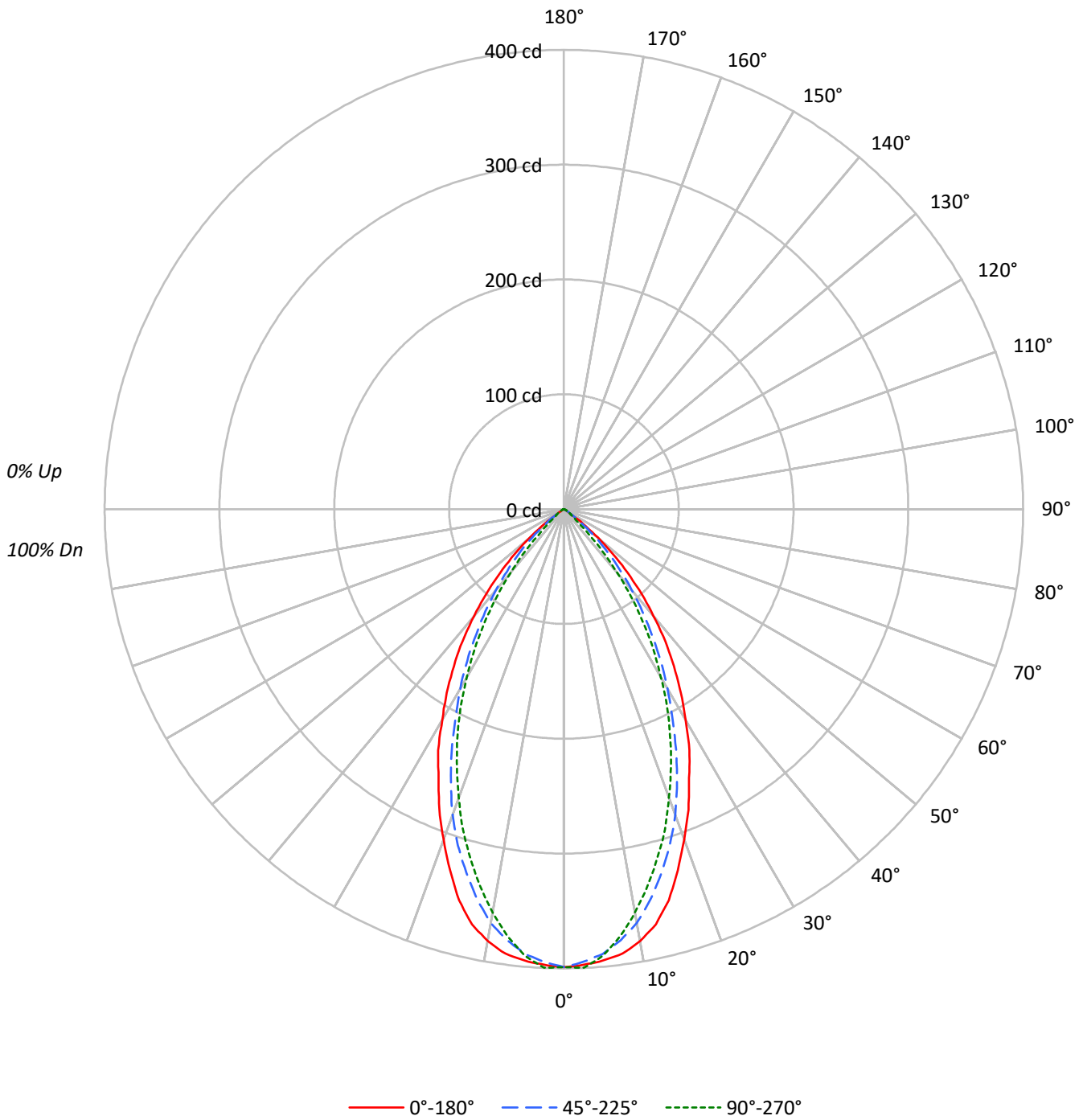
Lumens per Lamp: N/A
Luminaire Lumens: 375.1 lumens
Efficiency: N/A
Efficacy: 14.5 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.8 / 0.88
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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: P1058086

CATALOG NUMBER: S122RDR-S675D935-X4F0-XX-UDD-BVL-B

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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54
9	73	63	57	53	72	62	57	52	61	56	52	61	56	52	60	55	52	51
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7361	7361	7361
5°	7311	7202	7233
10°	7159	6858	6685
15°	6736	6268	6010
20°	6013	5565	5251
25°	5255	4705	4465
30°	4511	3846	3595
35°	3762	3003	2699
40°	2927	2214	1727
45°	2046	1474	749
50°	1114	775	267
55°	164	270	190
60°	30	63	125
65°	0	35	74
70°	0	0	43
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2046 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.6	9.8
10°-20°	92.4	24.6
20°-30°	107.7	28.7
30°-40°	86.3	23.0
40°-50°	42.9	11.4
50°-60°	8.5	2.3
60°-70°	0.7	0.2
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	236.7	63.1
0°-40°	323.0	86.1
0°-60°	374.3	99.8
0°-90°	375.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	375.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	399	399	399	399	399	
5°	395	395	389	390	390	37
15°	353	346	328	320	315	98
25°	258	245	231	226	219	119
35°	167	150	133	127	120	104
45°	78	69	56	38	29	61
55°	5	10	8	5	6	10
65°	0	0	1	1	2	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	398.9	398.9	398.9	398.9	398.9
2.5°	397.3	398.9	394.7	398.9	399.8
5°	394.7	394.7	388.8	389.7	390.5
7.5°	390.5	388.8	378.7	377.0	375.3
10°	382.1	378.7	366.0	359.3	356.8
12.5°	370.3	365.2	348.3	340.7	336.5
15°	352.6	345.8	328.1	319.7	314.6
17.5°	329.8	323.9	307.0	297.7	292.7
20°	306.2	297.7	283.4	274.1	267.4
22.5°	283.4	272.4	257.2	250.5	243.7
25°	258.1	245.4	231.1	226.0	219.3
27.5°	237.0	221.0	204.1	200.7	194.8
30°	211.7	196.5	180.5	175.4	168.7
32.5°	189.8	172.9	156.9	151.0	145.1
35°	167.0	150.1	133.3	127.4	119.8
37.5°	145.1	129.0	112.2	102.9	96.2
40°	121.5	108.0	91.9	80.1	71.7
42.5°	100.4	88.6	73.4	58.2	49.8
45°	78.4	69.2	56.5	38.0	28.7
47.5°	58.2	51.4	41.3	21.9	15.2
50°	38.8	36.3	27.0	11.0	9.3
52.5°	21.1	22.8	16.0	6.7	7.6
55°	5.1	10.1	8.4	5.1	5.9
57.5°	0.8	1.7	4.2	4.2	4.2
60°	0.8	0.8	1.7	2.5	3.4
62.5°	0.8	0.0	0.8	1.7	2.5
65°	0.0	0.0	0.8	0.8	1.7
67.5°	0.0	0.0	0.0	0.8	0.8
70°	0.0	0.0	0.0	0.8	0.8
72.5°	0.0	0.0	0.0	0.0	0.8
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)