

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: P1058109

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-56)
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-W
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

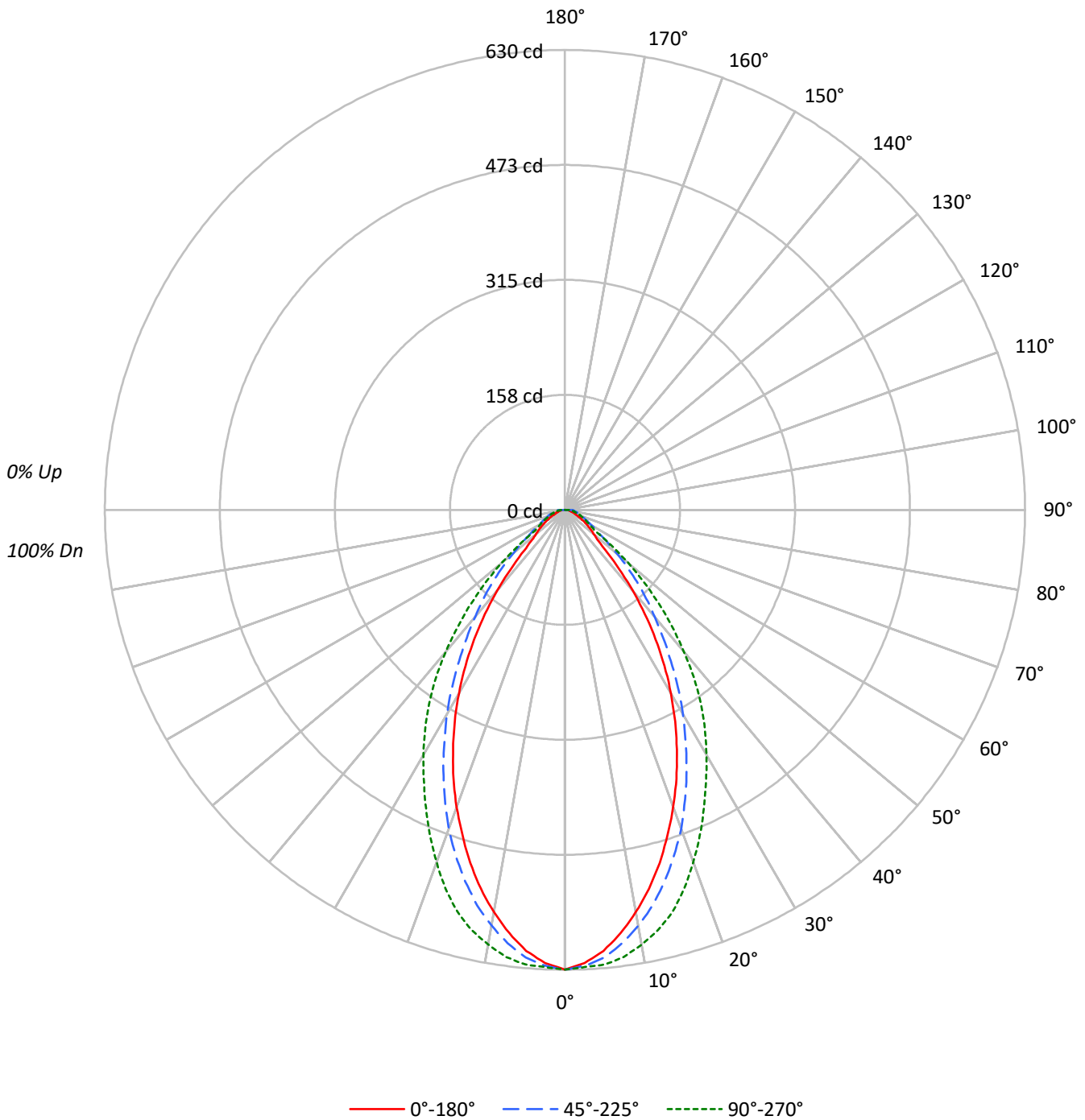
Lumens per Lamp: N/A
Luminaire Lumens: 764.0 lumens
Efficiency: N/A
Efficacy: 29.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	102	99	97	98	96	94	94	93	91	89				89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	83	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	67	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	45	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°	11621	11621	11621
5°	11232	11406	11581
10°	10485	10838	11328
15°	9565	10066	10887
20°	8509	9133	10089
25°	7374	8022	9166
30°	6181	6880	8254
35°	4870	5692	7314
40°	3471	4598	6109
45°	2051	3638	4739
50°	1478	2632	3224
55°	1235	1898	1625
60°	1000	1520	1380
65°	816	1349	1266
70°	707	1311	1214
75°	670	1333	1198
80°	701	1594	1296
85°	995	2583	1588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4739 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	7.6
10°-20°	148.4	19.4
20°-30°	183.1	24.0
30°-40°	162.9	21.3
40°-50°	103.9	13.6
50°-60°	49.9	6.5
60°-70°	29.3	3.8
70°-80°	18.7	2.4
80°-90°	10.0	1.3
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°	389.3	51.0
0°-40°	552.1	72.3
0°-60°	706.0	92.4
0°-90°	764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	630	630	630	630	630	
5°	606	618	616	620	625	56
15°	501	513	527	551	570	140
25°	362	376	394	422	450	166
35°	216	233	253	291	325	134
45°	79	102	139	162	182	66
55°	38	50	59	57	50	35
65°	19	34	31	28	29	19
75°	9	21	19	18	17	10
85°	5	11	12	10	8	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	629.8	629.8	629.8	629.8	629.8
2.5°	621.4	631.7	625.2	625.2	627.0
5°	606.4	617.7	615.8	619.5	625.2
7.5°	584.9	597.1	599.0	609.3	617.7
10°	559.6	572.8	578.4	593.3	604.6
12.5°	531.6	544.7	555.0	573.7	589.6
15°	500.7	512.9	526.9	551.2	569.9
17.5°	467.0	482.9	496.9	522.2	543.7
20°	433.3	448.3	465.1	489.5	513.8
22.5°	398.7	412.7	429.6	454.8	482.9
25°	362.2	376.2	394.0	422.1	450.2
27.5°	326.6	340.7	357.5	388.4	418.3
30°	290.1	304.2	322.9	354.7	387.4
32.5°	253.6	268.6	287.3	321.9	356.6
35°	216.2	233.0	252.7	291.1	324.7
37.5°	179.7	196.5	220.9	258.3	290.1
40°	144.1	163.8	190.9	224.6	253.6
42.5°	109.5	131.0	164.7	191.9	217.1
45°	78.6	102.0	139.4	161.9	181.6
47.5°	59.9	76.7	115.1	132.9	146.9
50°	51.5	61.8	91.7	104.8	112.3
52.5°	44.9	54.3	73.0	79.5	79.5
55°	38.4	49.6	59.0	57.1	50.5
57.5°	32.8	44.9	48.7	41.2	43.0
60°	27.1	41.2	41.2	36.5	37.4
62.5°	22.5	38.4	35.6	31.8	32.8
65°	18.7	33.7	30.9	28.1	29.0
67.5°	15.0	29.9	27.1	25.3	25.3
70°	13.1	27.1	24.3	22.5	22.5
72.5°	11.2	23.4	21.5	19.7	19.7
75°	9.4	20.6	18.7	17.8	16.8
77.5°	8.4	17.8	16.8	15.0	14.0
80°	6.6	15.0	15.0	14.0	12.2
82.5°	5.6	13.1	13.1	12.2	10.3
85°	4.7	11.2	12.2	10.3	7.5
87.5°	3.7	10.3	10.3	8.4	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)