

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: P1058073

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058073
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-S675D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

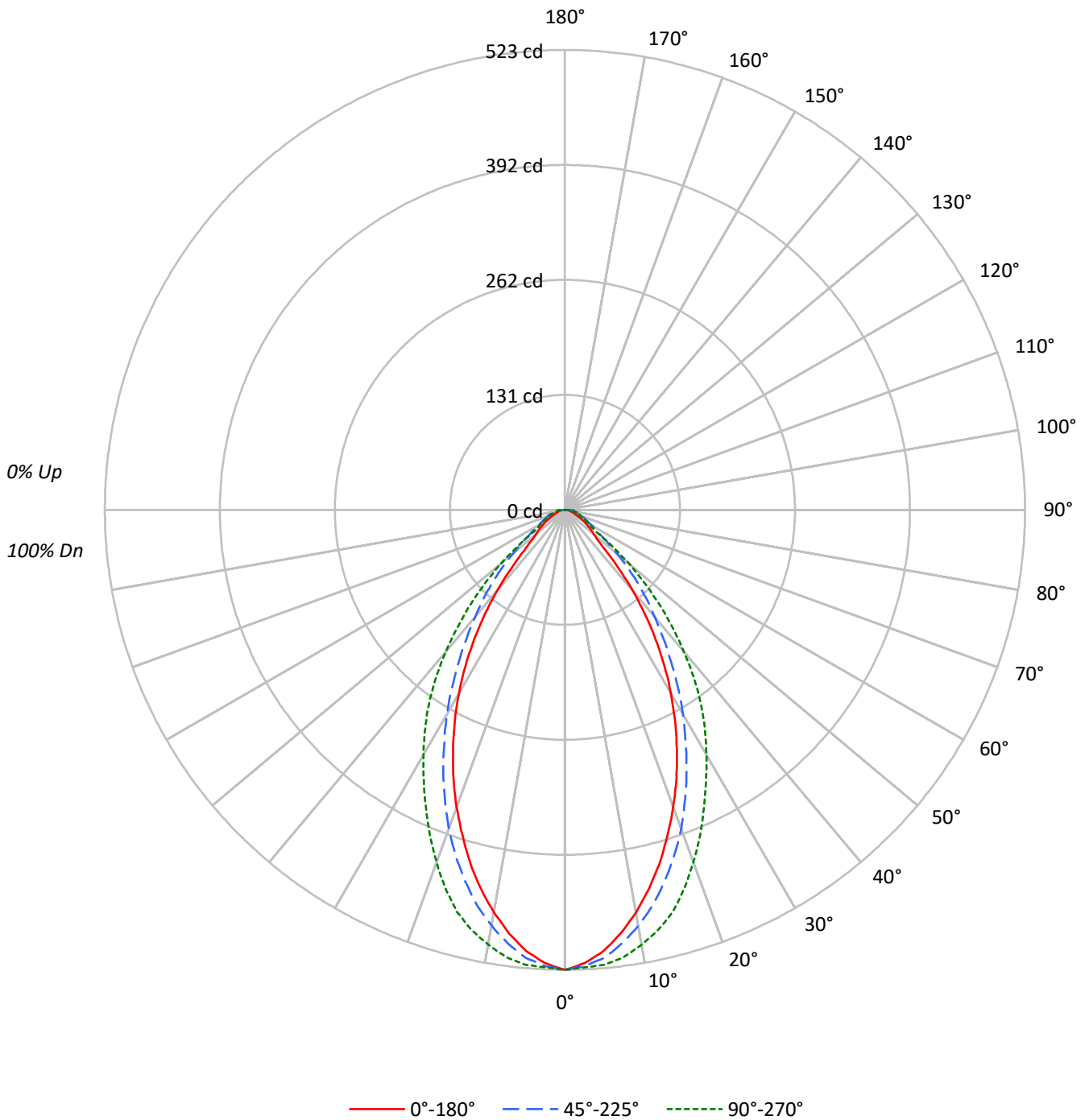
Lumens per Lamp: N/A
Luminaire Lumens: 634.4 lumens
Efficiency: N/A
Efficacy: 24.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9651	9651	9651
5°	9328	9471	9615
10°	8707	8999	9406
15°	7943	8358	9042
20°	7065	7584	8377
25°	6122	6662	7611
30°	5133	5712	6854
35°	4043	4726	6075
40°	2883	3818	5073
45°	1704	3022	3935
50°	1226	2187	2678
55°	1026	1576	1351
60°	830	1262	1148
65°	677	1118	1052
70°	588	1090	1009
75°	556	1105	998
80°	574	1318	1073
85°	826	2138	1313

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3935 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	7.6
10°-20°	123.2	19.4
20°-30°	152.0	24.0
30°-40°	135.2	21.3
40°-50°	86.3	13.6
50°-60°	41.5	6.5
60°-70°	24.3	3.8
70°-80°	15.5	2.4
80°-90°	8.3	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°	323.2	51.0
0°-40°	458.5	72.3
0°-60°	586.2	92.4
0°-90°	634.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	634.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	504	513	511	514	519	47
15°	416	426	438	458	473	116
25°	301	312	327	350	374	138
35°	180	194	210	242	270	112
45°	65	85	116	134	151	55
55°	32	41	49	47	42	29
65°	16	28	26	23	24	16
75°	8	17	16	15	14	9
85°	4	9	10	8	6	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	523.0	523.0	523.0	523.0	523.0
2.5°	516.0	524.6	519.1	519.1	520.7
5°	503.6	512.9	511.3	514.5	519.1
7.5°	485.7	495.8	497.4	505.9	512.9
10°	464.7	475.6	480.3	492.7	502.0
12.5°	441.4	452.3	460.8	476.4	489.6
15°	415.8	425.9	437.5	457.7	473.3
17.5°	387.8	401.0	412.7	433.6	451.5
20°	359.8	372.2	386.2	406.4	426.6
22.5°	331.1	342.7	356.7	377.7	401.0
25°	300.7	312.4	327.2	350.5	373.8
27.5°	271.2	282.9	296.9	322.5	347.4
30°	240.9	252.6	268.1	294.5	321.7
32.5°	210.6	223.0	238.6	267.3	296.1
35°	179.5	193.5	209.8	241.7	269.7
37.5°	149.2	163.2	183.4	214.5	240.9
40°	119.7	136.0	158.5	186.5	210.6
42.5°	90.9	108.8	136.8	159.3	180.3
45°	65.3	84.7	115.8	134.4	150.8
47.5°	49.7	63.7	95.6	110.4	122.0
50°	42.7	51.3	76.2	87.0	93.3
52.5°	37.3	45.1	60.6	66.1	66.1
55°	31.9	41.2	49.0	47.4	42.0
57.5°	27.2	37.3	40.4	34.2	35.7
60°	22.5	34.2	34.2	30.3	31.1
62.5°	18.7	31.9	29.5	26.4	27.2
65°	15.5	28.0	25.6	23.3	24.1
67.5°	12.4	24.9	22.5	21.0	21.0
70°	10.9	22.5	20.2	18.7	18.7
72.5°	9.3	19.4	17.9	16.3	16.3
75°	7.8	17.1	15.5	14.8	14.0
77.5°	7.0	14.8	14.0	12.4	11.7
80°	5.4	12.4	12.4	11.7	10.1
82.5°	4.7	10.9	10.9	10.1	8.5
85°	3.9	9.3	10.1	8.5	6.2
87.5°	3.1	8.5	8.5	7.0	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)