

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 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: S122RDRP-S675D927-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S122RDRP-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

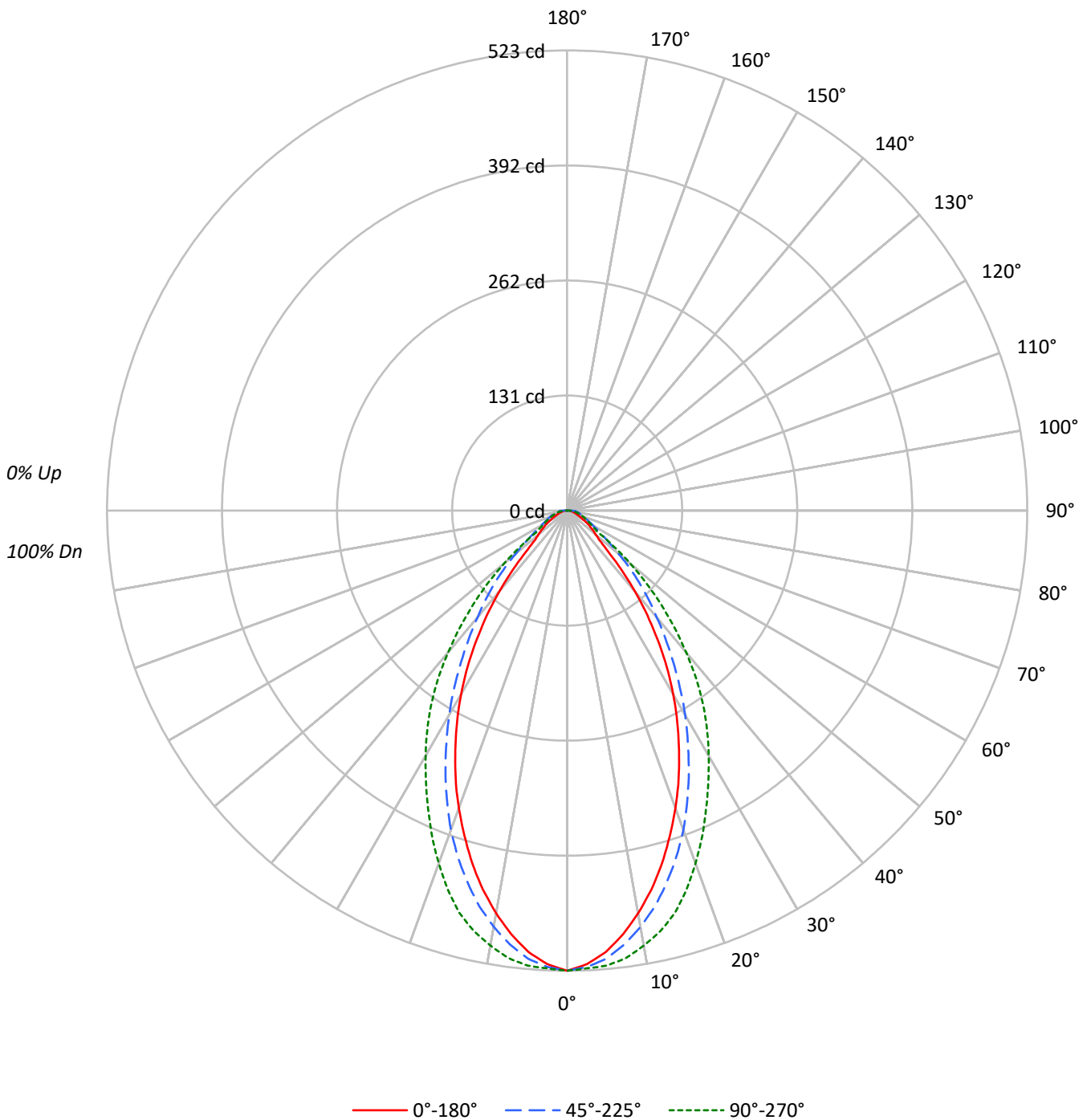
Lumens per Lamp: N/A
Luminaire Lumens: 634.4 lumens
Efficiency: N/A
Efficacy: 24.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (A_{in}): 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	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



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	9.55	10.82	9.91	11.14	11.45	9.34	10.61	9.70	10.93	11.24
	3H	10.78	11.91	11.16	12.24	12.61	10.93	12.07	11.31	12.40	12.76
	4H	11.23	12.29	11.64	12.64	13.03	11.65	12.71	12.05	13.06	13.44
	6H	11.61	12.59	12.03	12.96	13.35	12.30	13.28	12.72	13.65	14.04
	8H	11.77	12.69	12.20	13.08	13.49	12.63	13.55	13.06	13.94	14.35
	12H	11.93	12.81	12.36	13.19	13.62	12.93	13.81	13.36	14.19	14.62
4H	2H	10.09	11.15	10.50	11.50	11.89	9.93	10.99	10.33	11.34	11.72
	3H	11.79	12.66	12.20	13.06	13.47	11.77	12.64	12.18	13.05	13.45
	4H	12.59	13.37	13.02	13.79	14.23	12.64	13.43	13.08	13.85	14.29
	6H	13.23	13.91	13.69	14.35	14.82	13.49	14.17	13.95	14.61	15.08
	8H	13.48	14.11	13.95	14.56	15.03	13.91	14.55	14.38	14.99	15.46
	12H	13.73	14.29	14.21	14.77	15.24	14.31	14.87	14.80	15.35	15.83
8H	4H	13.00	13.64	13.47	14.08	14.56	13.06	13.69	13.53	14.14	14.61
	6H	13.98	14.50	14.48	15.00	15.48	14.15	14.67	14.65	15.16	15.65
	8H	14.47	14.94	15.00	15.46	15.95	14.74	15.21	15.26	15.72	16.21
	12H	14.98	15.39	15.49	15.88	16.46	15.34	15.75	15.85	16.24	16.81
12H	4H	13.07	13.63	13.56	14.11	14.59	13.14	13.70	13.62	14.18	14.65
	6H	14.15	14.62	14.67	15.13	15.62	14.31	14.78	14.83	15.30	15.79
	8H	14.79	15.20	15.30	15.69	16.27	15.02	15.44	15.54	15.93	16.50