

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: P1058107

Luminaire Tested: S122RDRP-S675D950-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S122RDRP-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

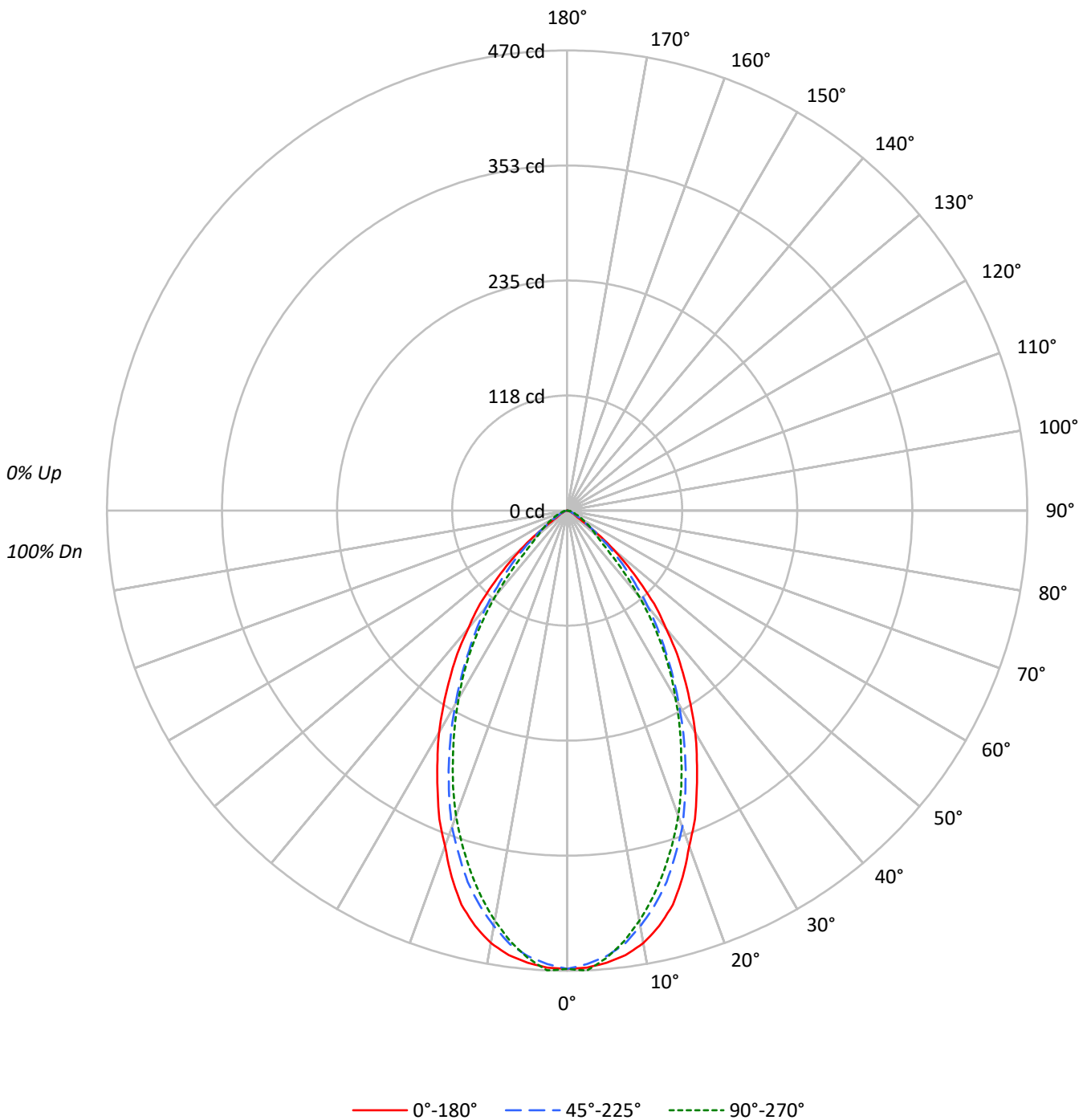
Lumens per Lamp: N/A
Luminaire Lumens: 503.5 lumens
Efficiency: N/A
Efficacy: 19.5 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	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

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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	3.38	4.54	3.74	4.85	5.17	6.78	7.94	7.15	8.26	8.57
	3H	3.90	4.92	4.28	5.25	5.62	7.50	8.53	7.88	8.86	9.22
	4H	4.03	4.98	4.44	5.33	5.72	7.72	8.67	8.13	9.02	9.41
	6H	4.11	4.98	4.53	5.35	5.74	7.87	8.73	8.28	9.11	9.50
	8H	4.11	4.93	4.54	5.32	5.73	7.90	8.72	8.33	9.11	9.52
	12H	4.07	4.85	4.51	5.24	5.67	7.90	8.68	8.33	9.06	9.49
4H	2H	3.69	4.64	4.09	4.99	5.37	6.75	7.70	7.15	8.05	8.43
	3H	4.34	5.11	4.76	5.52	5.92	7.62	8.38	8.03	8.79	9.20
	4H	4.59	5.27	5.02	5.69	6.14	7.90	8.58	8.33	9.00	9.45
	6H	4.71	5.29	5.17	5.74	6.21	8.12	8.70	8.59	9.15	9.62
	8H	4.72	5.26	5.19	5.71	6.19	8.16	8.71	8.64	9.16	9.63
	12H	4.68	5.16	5.17	5.64	6.12	8.18	8.66	8.67	9.15	9.62
8H	4H	4.69	5.24	5.17	5.69	6.16	7.83	8.37	8.30	8.82	9.29
	6H	4.86	5.30	5.37	5.80	6.29	8.09	8.53	8.59	9.03	9.51
	8H	4.90	5.29	5.43	5.81	6.31	8.15	8.54	8.67	9.06	9.56
	12H	4.87	5.22	5.39	5.72	6.29	8.20	8.55	8.72	9.05	9.62
12H	4H	4.68	5.16	5.17	5.64	6.12	7.78	8.26	8.27	8.74	9.22
	6H	4.86	5.25	5.39	5.77	6.27	8.04	8.43	8.56	8.95	9.44
	8H	4.92	5.27	5.44	5.77	6.34	8.12	8.47	8.64	8.96	9.54