

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: P1058090

Luminaire Tested: S122RDRP-S675D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-59)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S675D935-X4F0-XX-UDD-SVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

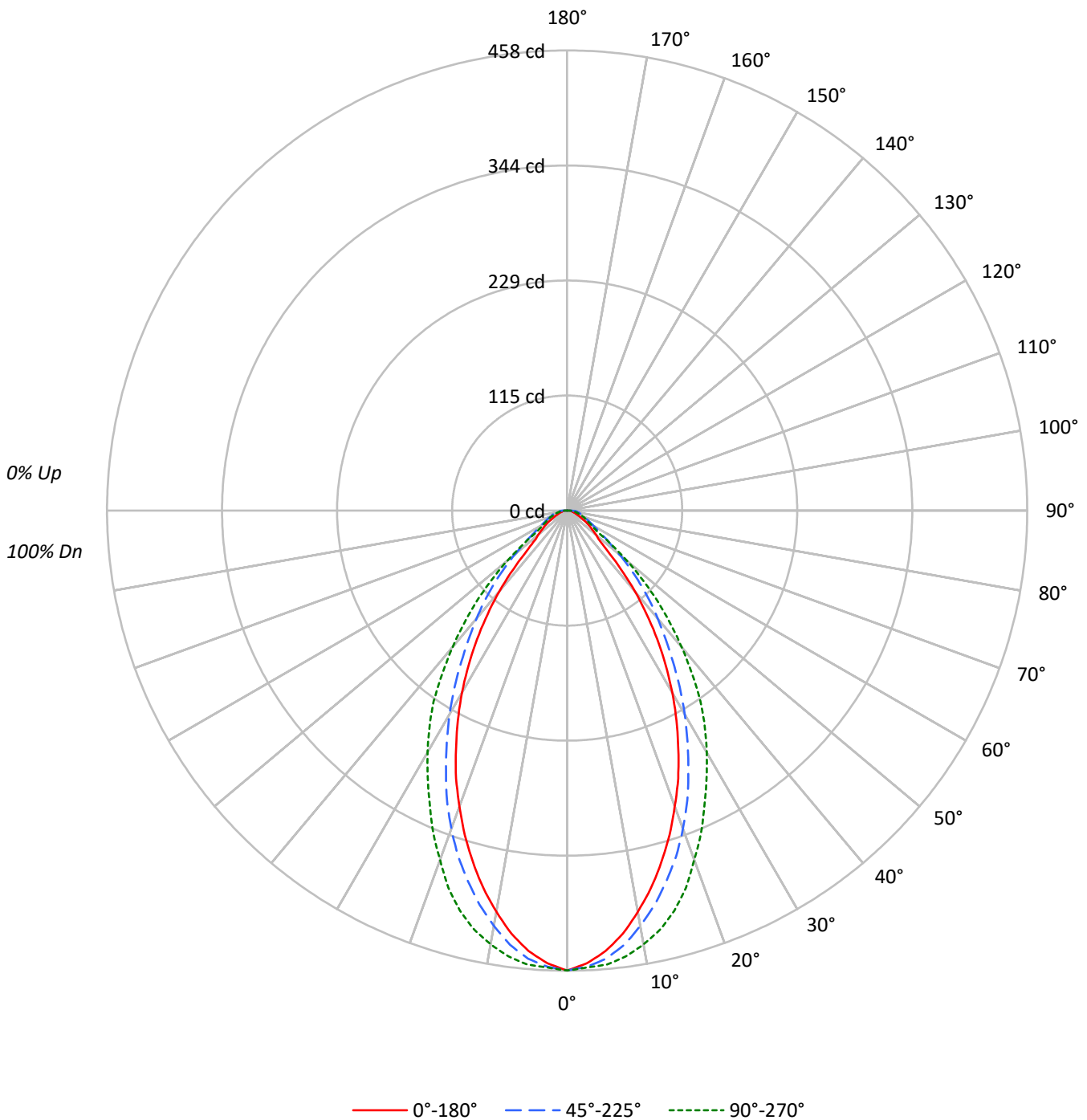
Lumens per Lamp: N/A
Luminaire Lumens: 552.2 lumens
Efficiency: N/A
Efficacy: 21.4 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	101	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	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	66	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	44	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°	8446	8446	8446
5°	8150	8291	8400
10°	7596	7864	8212
15°	6921	7292	7873
20°	6152	6618	7264
25°	5330	5811	6584
30°	4462	4984	5919
35°	3519	4129	5213
40°	2522	3377	4271
45°	1477	2667	3306
50°	1068	1941	2231
55°	898	1387	1168
60°	716	1122	996
65°	589	995	921
70°	502	955	863
75°	485	1027	841
80°	542	1254	893
85°	889	1969	1249

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3306 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	7.6
10°-20°	107.4	19.5
20°-30°	132.1	23.9
30°-40°	116.8	21.1
40°-50°	74.5	13.5
50°-60°	36.3	6.6
60°-70°	21.7	3.9
70°-80°	13.8	2.5
80°-90°	7.6	1.4
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°	281.5	51.0
0°-40°	398.2	72.1
0°-60°	509.1	92.2
0°-90°	552.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	552.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	458	458	458	458	458	
5°	440	449	448	449	454	41
15°	362	372	382	399	412	101
25°	262	271	285	303	323	120
35°	156	165	183	209	231	97
45°	57	73	102	115	127	48
55°	28	37	43	40	36	25
65°	14	25	23	21	21	14
75°	7	15	14	13	12	7
85°	4	8	9	8	6	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	457.7	457.7	457.7	457.7	457.7
2.5°	451.0	459.4	454.3	454.3	455.2
5°	440.0	449.3	447.6	449.3	453.5
7.5°	424.8	434.1	435.8	442.5	447.6
10°	405.4	414.7	419.7	430.7	438.3
12.5°	385.1	394.4	402.0	416.3	427.3
15°	362.3	372.4	381.7	398.6	412.1
17.5°	338.6	348.8	360.6	377.5	393.5
20°	313.3	322.6	337.0	353.0	369.9
22.5°	288.8	297.3	312.5	327.7	347.9
25°	261.8	271.1	285.4	303.2	323.4
27.5°	235.6	244.9	259.3	279.5	300.6
30°	209.4	217.9	233.9	255.0	277.8
32.5°	182.4	190.9	208.6	231.4	255.0
35°	156.2	164.7	183.3	208.6	231.4
37.5°	130.1	139.3	160.5	184.1	203.5
40°	104.7	115.7	140.2	160.5	177.3
42.5°	79.4	94.6	120.8	137.7	151.2
45°	56.6	72.6	102.2	114.9	126.7
47.5°	43.1	55.7	84.5	93.7	101.3
50°	37.2	45.6	67.6	74.3	77.7
52.5°	32.1	40.5	54.0	56.6	54.9
55°	27.9	37.2	43.1	40.5	36.3
57.5°	23.6	34.6	35.5	30.4	31.2
60°	19.4	31.2	30.4	26.2	27.0
62.5°	16.0	28.7	26.2	23.6	23.6
65°	13.5	25.3	22.8	21.1	21.1
67.5°	11.0	22.8	20.3	18.6	18.6
70°	9.3	20.3	17.7	16.0	16.0
72.5°	8.4	17.7	16.0	14.4	14.4
75°	6.8	15.2	14.4	12.7	11.8
77.5°	5.9	12.7	12.7	11.8	10.1
80°	5.1	11.0	11.8	10.1	8.4
82.5°	5.1	10.1	10.1	9.3	6.8
85°	4.2	8.4	9.3	8.4	5.9
87.5°	2.5	7.6	7.6	6.8	4.2
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	9.43	10.71	9.80	11.03	11.34	8.96	10.24	9.33	10.56	10.87
	3H	10.62	11.75	11.00	12.08	12.45	10.53	11.66	10.91	12.00	12.36
	4H	11.05	12.11	11.45	12.46	12.84	11.21	12.27	11.61	12.62	13.01
	6H	11.39	12.37	11.81	12.74	13.13	11.85	12.83	12.27	13.20	13.60
	8H	11.59	12.52	12.02	12.91	13.31	12.15	13.07	12.58	13.46	13.87
	12H	11.81	12.69	12.24	13.08	13.51	12.46	13.35	12.90	13.73	14.16
4H	2H	9.94	11.00	10.34	11.35	11.74	9.56	10.63	9.97	10.98	11.36
	3H	11.59	12.46	12.00	12.87	13.27	11.36	12.24	11.78	12.64	13.05
	4H	12.35	13.14	12.79	13.56	14.00	12.21	12.99	12.64	13.41	13.86
	6H	12.96	13.64	13.42	14.08	14.55	13.06	13.74	13.52	14.18	14.65
	8H	13.26	13.89	13.73	14.34	14.81	13.45	14.09	13.92	14.53	15.00
	12H	13.57	14.13	14.05	14.61	15.09	13.89	14.45	14.37	14.93	15.41
8H	4H	12.77	13.41	13.24	13.85	14.33	12.67	13.30	13.14	13.75	14.22
	6H	13.72	14.24	14.22	14.74	15.22	13.77	14.29	14.27	14.79	15.27
	8H	14.27	14.74	14.79	15.25	15.74	14.35	14.82	14.87	15.33	15.83
	12H	14.83	15.24	15.34	15.74	16.31	15.02	15.43	15.53	15.93	16.50
12H	4H	12.84	13.40	13.33	13.89	14.36	12.75	13.31	13.24	13.80	14.27
	6H	13.90	14.37	14.43	14.89	15.38	13.95	14.42	14.48	14.94	15.43
	8H	14.60	15.01	15.11	15.50	16.08	14.67	15.08	15.18	15.58	16.15