

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: P1058081

Luminaire Tested: S122RDRP-S675D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058081
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-S675D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

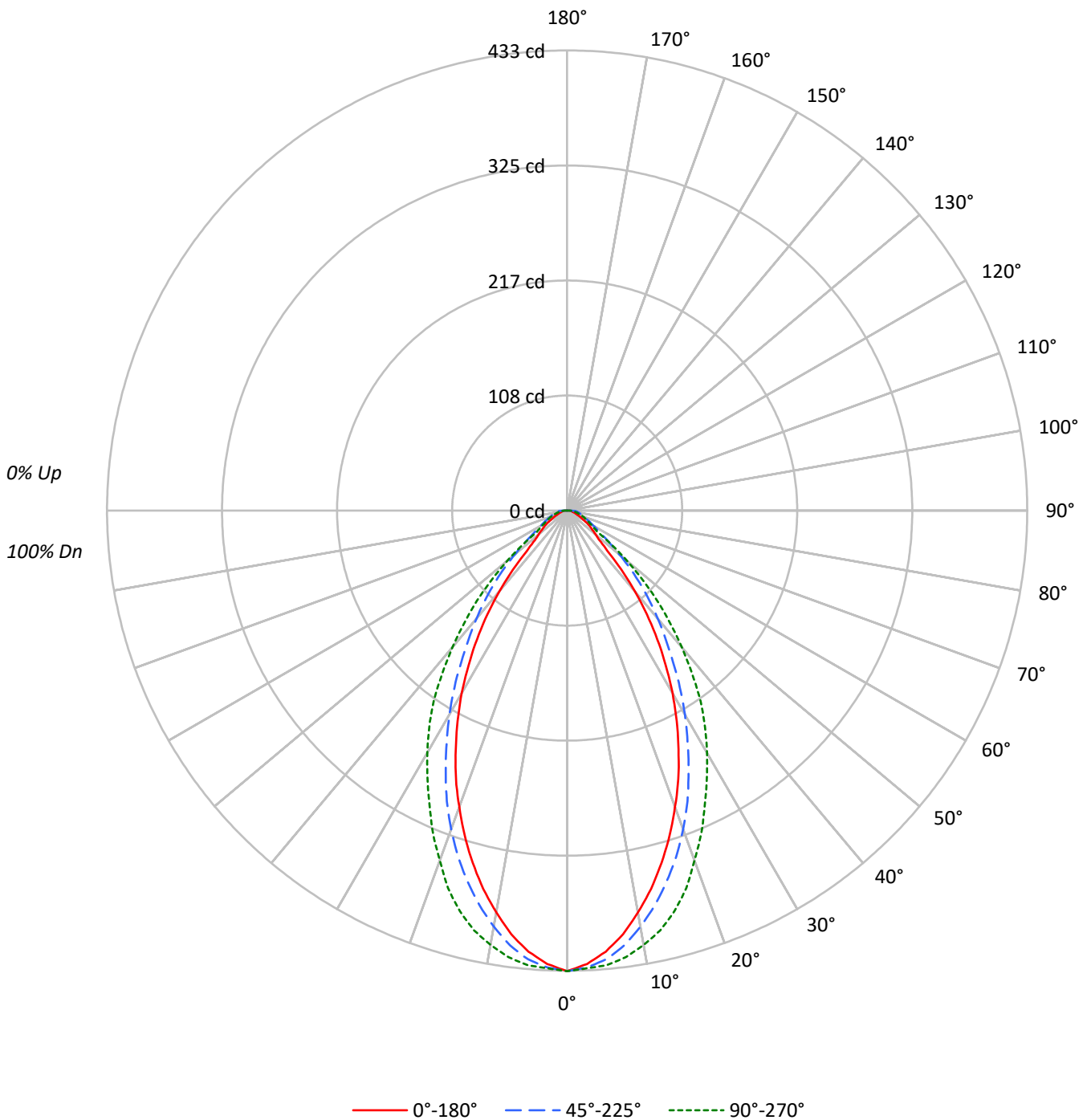
Lumens per Lamp: N/A
Luminaire Lumens: 522.9 lumens
Efficiency: N/A
Efficacy: 20.3 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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°	7997	7997	7997
5°	7717	7850	7954
10°	7193	7446	7776
15°	6554	6906	7454
20°	5826	6266	6879
25°	5047	5503	6236
30°	4225	4720	5606
35°	3332	3908	4936
40°	2390	3196	4044
45°	1399	2526	3131
50°	1010	1837	2113
55°	849	1313	1107
60°	679	1063	945
65°	559	943	873
70°	475	906	820
75°	456	970	799
80°	510	1190	850
85°	847	1863	1186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3131 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	7.6
10°-20°	101.8	19.5
20°-30°	125.1	23.9
30°-40°	110.5	21.1
40°-50°	70.6	13.5
50°-60°	34.4	6.6
60°-70°	20.5	3.9
70°-80°	13.1	2.5
80°-90°	7.2	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°	266.5	51.0
0°-40°	377.1	72.1
0°-60°	482.1	92.2
0°-90°	522.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	522.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	433	433	433	433	433	
5°	417	425	424	425	429	39
15°	343	353	362	378	390	96
25°	248	257	270	287	306	113
35°	148	156	174	198	219	92
45°	54	69	97	109	120	45
55°	26	35	41	38	34	24
65°	13	24	22	20	20	13
75°	6	14	14	12	11	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°	433.4	433.4	433.4	433.4	433.4
2.5°	427.0	435.0	430.2	430.2	431.0
5°	416.6	425.4	423.8	425.4	429.4
7.5°	402.2	411.0	412.6	419.0	423.8
10°	383.9	392.6	397.4	407.8	415.0
12.5°	364.7	373.5	380.7	394.2	404.6
15°	343.1	352.7	361.5	377.5	390.2
17.5°	320.7	330.3	341.5	357.5	372.7
20°	296.7	305.5	319.1	334.3	350.3
22.5°	273.5	281.5	295.9	310.3	329.5
25°	247.9	256.7	270.3	287.1	306.3
27.5°	223.1	231.9	245.5	264.7	284.7
30°	198.3	206.3	221.5	241.5	263.1
32.5°	172.7	180.7	197.5	219.1	241.5
35°	147.9	155.9	173.5	197.5	219.1
37.5°	123.2	131.9	151.9	174.3	192.7
40°	99.2	109.6	132.7	151.9	167.9
42.5°	75.2	89.6	114.4	130.3	143.1
45°	53.6	68.8	96.8	108.8	120.0
47.5°	40.8	52.8	80.0	88.8	96.0
50°	35.2	43.2	64.0	70.4	73.6
52.5°	30.4	38.4	51.2	53.6	52.0
55°	26.4	35.2	40.8	38.4	34.4
57.5°	22.4	32.8	33.6	28.8	29.6
60°	18.4	29.6	28.8	24.8	25.6
62.5°	15.2	27.2	24.8	22.4	22.4
65°	12.8	24.0	21.6	20.0	20.0
67.5°	10.4	21.6	19.2	17.6	17.6
70°	8.8	19.2	16.8	15.2	15.2
72.5°	8.0	16.8	15.2	13.6	13.6
75°	6.4	14.4	13.6	12.0	11.2
77.5°	5.6	12.0	12.0	11.2	9.6
80°	4.8	10.4	11.2	9.6	8.0
82.5°	4.8	9.6	9.6	8.8	6.4
85°	4.0	8.0	8.8	8.0	5.6
87.5°	2.4	7.2	7.2	6.4	4.0
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	9.25	10.53	9.62	10.85	11.16	8.78	10.06	9.14	10.37	10.69
	3H	10.43	11.57	10.81	11.90	12.26	10.34	11.48	10.72	11.81	12.18
	4H	10.86	11.92	11.26	12.27	12.66	11.02	12.09	11.43	12.44	12.82
	6H	11.20	12.18	11.62	12.55	12.95	11.67	12.65	12.09	13.02	13.41
	8H	11.40	12.33	11.83	12.72	13.12	11.96	12.89	12.39	13.28	13.68
	12H	11.62	12.51	12.05	12.89	13.32	12.28	13.16	12.71	13.55	13.98
4H	2H	9.76	10.82	10.16	11.17	11.55	9.38	10.44	9.78	10.79	11.18
	3H	11.40	12.28	11.82	12.68	13.08	11.18	12.05	11.59	12.46	12.86
	4H	12.17	12.95	12.60	13.37	13.81	12.02	12.81	12.46	13.23	13.67
	6H	12.77	13.45	13.23	13.89	14.36	12.88	13.56	13.34	14.00	14.47
	8H	13.07	13.70	13.54	14.15	14.62	13.27	13.90	13.74	14.35	14.82
	12H	13.38	13.94	13.87	14.43	14.90	13.70	14.27	14.19	14.75	15.22
8H	4H	12.58	13.22	13.05	13.67	14.14	12.48	13.11	12.95	13.56	14.03
	6H	13.53	14.05	14.03	14.55	15.03	13.59	14.11	14.09	14.61	15.09
	8H	14.08	14.55	14.60	15.06	15.56	14.17	14.64	14.69	15.15	15.64
	12H	14.64	15.06	15.16	15.55	16.13	14.84	15.25	15.35	15.75	16.32
12H	4H	12.65	13.22	13.14	13.70	14.17	12.56	13.12	13.05	13.61	14.08
	6H	13.72	14.19	14.24	14.70	15.19	13.77	14.24	14.29	14.76	15.25
	8H	14.41	14.82	14.92	15.32	15.89	14.48	14.90	15.00	15.39	15.96