

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: P1058078

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-60)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S675D930-X4F0-XX-UDD-BVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

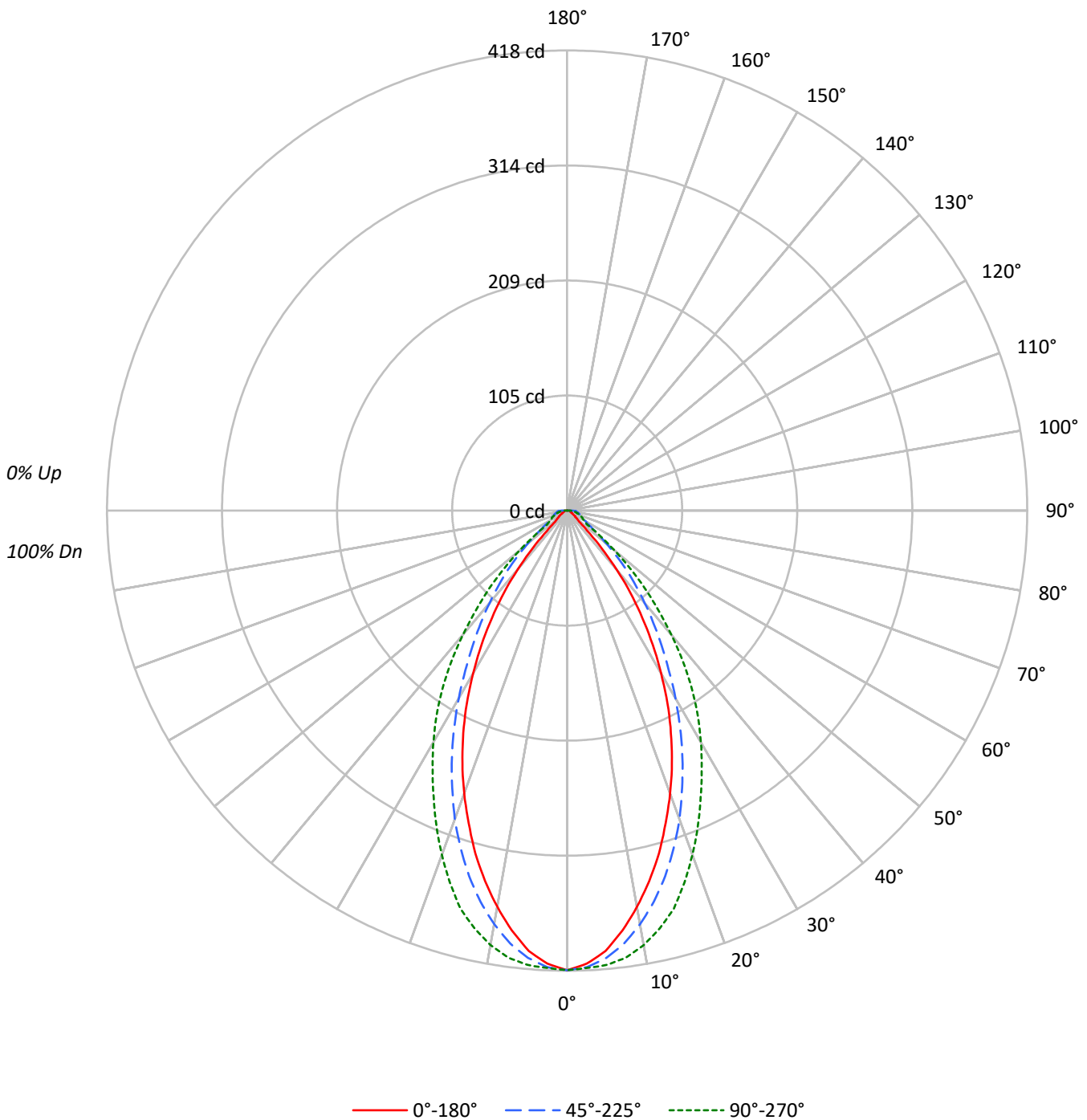
Lumens per Lamp: N/A
Luminaire Lumens: 450.1 lumens
Efficiency: N/A
Efficacy: 17.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.95 / 0.9
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61
6	82	72	65	60	80	71	64	59	69	63	59	68	63	59	66	62	58	57
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7704	7704	7704
5°	7437	7556	7674
10°	6848	7148	7508
15°	6157	6570	7150
20°	5371	5858	6533
25°	4542	5047	5845
30°	3631	4193	5180
35°	2685	3370	4451
40°	1696	2640	3546
45°	668	1983	2610
50°	344	1332	1608
55°	283	875	721
60°	207	709	650
65°	175	664	664
70°	173	691	647
75°	228	799	684
80°	340	1020	765
85°	508	1694	1016

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 87.5°
 Luminance: 3384 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	8.5
10°-20°	96.4	21.4
20°-30°	114.6	25.5
30°-40°	95.4	21.2
40°-50°	53.3	11.8
50°-60°	21.5	4.8
60°-70°	13.8	3.1
70°-80°	10.3	2.3
80°-90°	6.6	1.5
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°	249.2	55.4
0°-40°	344.6	76.6
0°-60°	419.4	93.2
0°-90°	450.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	450.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	402	409	408	411	414	37
15°	322	332	344	362	374	90
25°	223	232	248	267	287	102
35°	119	130	150	174	198	74
45°	26	43	76	89	100	24
55°	9	18	27	26	22	8
65°	4	16	15	14	15	4
75°	3	11	11	10	10	3
85°	2	7	8	7	5	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	417.5	417.5	417.5	417.5	417.5
2.5°	411.9	418.3	415.1	415.1	415.9
5°	401.5	408.7	407.9	411.1	414.3
7.5°	384.7	392.7	396.7	403.9	409.5
10°	365.5	374.3	381.5	392.7	400.7
12.5°	344.7	353.5	363.9	378.3	388.7
15°	322.3	331.9	343.9	361.5	374.3
17.5°	297.5	307.9	321.5	340.7	354.3
20°	273.5	283.9	298.3	317.5	332.7
22.5°	248.7	257.5	272.7	291.9	310.3
25°	223.1	231.9	247.9	267.1	287.1
27.5°	197.6	206.4	222.3	242.3	264.7
30°	170.4	180.0	196.8	219.1	243.1
32.5°	144.8	154.4	172.0	196.8	220.7
35°	119.2	130.4	149.6	174.4	197.6
37.5°	94.4	107.2	128.8	152.0	172.8
40°	70.4	84.0	109.6	129.6	147.2
42.5°	46.4	62.4	92.0	108.8	122.4
45°	25.6	43.2	76.0	88.8	100.0
47.5°	14.4	28.0	60.0	70.4	76.8
50°	12.0	20.8	46.4	53.6	56.0
52.5°	9.6	19.2	35.2	39.2	37.6
55°	8.8	18.4	27.2	26.4	22.4
57.5°	7.2	18.4	21.6	19.2	19.2
60°	5.6	17.6	19.2	16.8	17.6
62.5°	4.8	16.8	17.6	16.0	16.0
65°	4.0	16.0	15.2	14.4	15.2
67.5°	3.2	14.4	14.4	13.6	13.6
70°	3.2	13.6	12.8	12.0	12.0
72.5°	3.2	12.0	12.0	11.2	11.2
75°	3.2	11.2	11.2	10.4	9.6
77.5°	3.2	9.6	10.4	9.6	8.8
80°	3.2	8.8	9.6	8.8	7.2
82.5°	3.2	8.0	8.8	8.0	6.4
85°	2.4	7.2	8.0	7.2	4.8
87.5°	2.4	7.2	8.0	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	5.46	6.68	5.83	6.99	7.31	6.54	7.75	6.90	8.07	8.38
	3H	6.79	7.88	7.17	8.21	8.57	8.57	9.65	8.95	9.98	10.35
	4H	7.37	8.38	7.77	8.73	9.11	9.52	10.53	9.92	10.88	11.27
	6H	7.93	8.86	8.35	9.23	9.63	10.47	11.40	10.88	11.77	12.16
	8H	8.26	9.14	8.69	9.53	9.94	10.92	11.80	11.35	12.19	12.59
	12H	8.57	9.41	9.00	9.79	10.22	11.34	12.18	11.77	12.56	12.99
4H	2H	6.42	7.43	6.83	7.79	8.17	7.21	8.22	7.62	8.57	8.96
	3H	8.45	9.28	8.87	9.69	10.09	9.50	10.33	9.91	10.73	11.14
	4H	9.53	10.28	9.97	10.70	11.14	10.64	11.39	11.08	11.81	12.26
	6H	10.40	11.05	10.87	11.50	11.97	11.81	12.46	12.28	12.91	13.38
	8H	10.81	11.42	11.29	11.87	12.34	12.38	12.98	12.85	13.43	13.90
	12H	11.19	11.73	11.68	12.21	12.69	12.92	13.45	13.41	13.94	14.41
8H	4H	10.30	10.91	10.77	11.36	11.83	11.19	11.80	11.67	12.25	12.72
	6H	11.64	12.14	12.15	12.64	13.12	12.65	13.15	13.15	13.64	14.13
	8H	12.36	12.81	12.88	13.32	13.81	13.41	13.86	13.94	14.38	14.87
	12H	13.05	13.44	13.57	13.94	14.51	14.20	14.59	14.72	15.09	15.66
12H	4H	10.46	10.99	10.95	11.48	11.95	11.30	11.84	11.79	12.32	12.80
	6H	11.96	12.41	12.49	12.93	13.42	12.88	13.32	13.40	13.84	14.33
	8H	12.87	13.26	13.38	13.76	14.33	13.78	14.18	14.30	14.67	15.24