

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: P1058082

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058082
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-S675D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

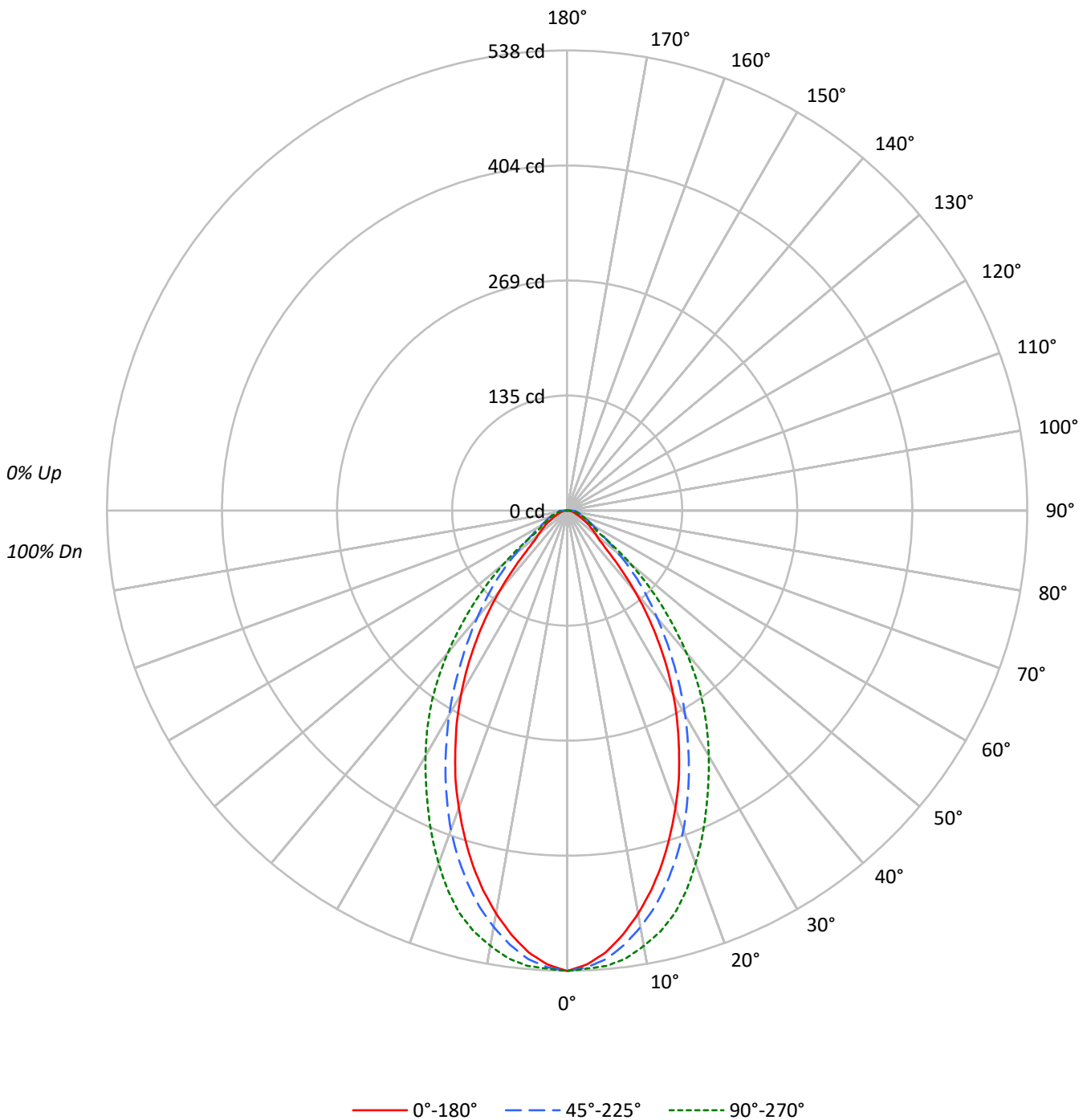
Lumens per Lamp: N/A
Luminaire Lumens: 652.9 lumens
Efficiency: N/A
Efficacy: 25.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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°	9933	9933	9933
5°	9600	9749	9897
10°	8962	9262	9681
15°	8174	8602	9305
20°	7271	7806	8622
25°	6301	6855	7833
30°	5282	5879	7055
35°	4163	4863	6251
40°	2968	3931	5220
45°	1754	3111	4050
50°	1263	2251	2756
55°	1055	1621	1390
60°	856	1299	1181
65°	699	1153	1083
70°	604	1122	1036
75°	570	1141	1027
80°	595	1360	1105
85°	847	2202	1355

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4050 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	7.6
10°-20°	126.8	19.4
20°-30°	156.5	24.0
30°-40°	139.2	21.3
40°-50°	88.9	13.6
50°-60°	42.7	6.5
60°-70°	25.0	3.8
70°-80°	16.0	2.4
80°-90°	8.5	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°	332.7	51.0
0°-40°	471.8	72.3
0°-60°	603.4	92.4
0°-90°	652.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	652.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	538	538	538	538	538	
5°	518	528	526	530	534	48
15°	428	438	450	471	487	119
25°	310	322	337	361	385	142
35°	185	199	216	249	278	115
45°	67	87	119	138	155	56
55°	33	42	50	49	43	30
65°	16	29	26	24	25	16
75°	8	18	16	15	14	9
85°	4	10	10	9	6	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	538.3	538.3	538.3	538.3	538.3
2.5°	531.1	539.9	534.3	534.3	535.9
5°	518.3	527.9	526.3	529.5	534.3
7.5°	499.9	510.3	511.9	520.7	527.9
10°	478.3	489.5	494.3	507.1	516.7
12.5°	454.3	465.5	474.3	490.3	503.9
15°	427.9	438.3	450.3	471.1	487.1
17.5°	399.1	412.7	424.7	446.3	464.7
20°	370.3	383.1	397.5	418.3	439.1
22.5°	340.7	352.7	367.1	388.7	412.7
25°	309.5	321.5	336.7	360.7	384.7
27.5°	279.1	291.1	305.5	331.9	357.5
30°	247.9	259.9	275.9	303.1	331.1
32.5°	216.7	229.5	245.5	275.1	304.7
35°	184.8	199.2	215.9	248.7	277.5
37.5°	153.6	168.0	188.8	220.7	247.9
40°	123.2	140.0	163.2	192.0	216.7
42.5°	93.6	112.0	140.8	164.0	185.6
45°	67.2	87.2	119.2	138.4	155.2
47.5°	51.2	65.6	98.4	113.6	125.6
50°	44.0	52.8	78.4	89.6	96.0
52.5°	38.4	46.4	62.4	68.0	68.0
55°	32.8	42.4	50.4	48.8	43.2
57.5°	28.0	38.4	41.6	35.2	36.8
60°	23.2	35.2	35.2	31.2	32.0
62.5°	19.2	32.8	30.4	27.2	28.0
65°	16.0	28.8	26.4	24.0	24.8
67.5°	12.8	25.6	23.2	21.6	21.6
70°	11.2	23.2	20.8	19.2	19.2
72.5°	9.6	20.0	18.4	16.8	16.8
75°	8.0	17.6	16.0	15.2	14.4
77.5°	7.2	15.2	14.4	12.8	12.0
80°	5.6	12.8	12.8	12.0	10.4
82.5°	4.8	11.2	11.2	10.4	8.8
85°	4.0	9.6	10.4	8.8	6.4
87.5°	3.2	8.8	8.8	7.2	4.8
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	9.65	10.93	10.01	11.24	11.55	9.44	10.72	9.80	11.03	11.34
	3H	10.88	12.02	11.26	12.35	12.71	11.03	12.17	11.41	12.50	12.86
	4H	11.33	12.39	11.74	12.74	13.13	11.75	12.81	12.15	13.16	13.54
	6H	11.71	12.69	12.13	13.06	13.45	12.40	13.37	12.82	13.75	14.14
	8H	11.87	12.79	12.30	13.18	13.59	12.73	13.65	13.16	14.04	14.45
	12H	12.03	12.91	12.46	13.29	13.72	13.03	13.91	13.46	14.29	14.72
4H	2H	10.20	11.26	10.60	11.61	11.99	10.03	11.09	10.44	11.44	11.83
	3H	11.89	12.76	12.31	13.17	13.57	11.87	12.74	12.28	13.14	13.55
	4H	12.69	13.47	13.12	13.89	14.33	12.74	13.52	13.18	13.94	14.39
	6H	13.33	14.01	13.80	14.46	14.92	13.59	14.26	14.05	14.71	15.18
	8H	13.58	14.21	14.05	14.66	15.13	14.01	14.65	14.48	15.09	15.56
	12H	13.83	14.39	14.31	14.87	15.35	14.41	14.97	14.90	15.46	15.93
8H	4H	13.11	13.74	13.58	14.19	14.66	13.16	13.79	13.63	14.24	14.71
	6H	14.08	14.60	14.59	15.10	15.58	14.25	14.77	14.75	15.26	15.74
	8H	14.58	15.04	15.10	15.56	16.05	14.84	15.31	15.36	15.82	16.31
	12H	15.08	15.49	15.59	15.99	16.56	15.44	15.85	15.96	16.35	16.92
12H	4H	13.17	13.73	13.66	14.22	14.69	13.24	13.80	13.72	14.28	14.75
	6H	14.25	14.72	14.77	15.24	15.73	14.41	14.88	14.93	15.39	15.89
	8H	14.89	15.30	15.40	15.80	16.37	15.12	15.54	15.64	16.03	16.60