

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: P1058112

Luminaire Tested: S122RDRP-S675D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-55)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S675D950-X4F0-XX-UDD-WVL-W
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

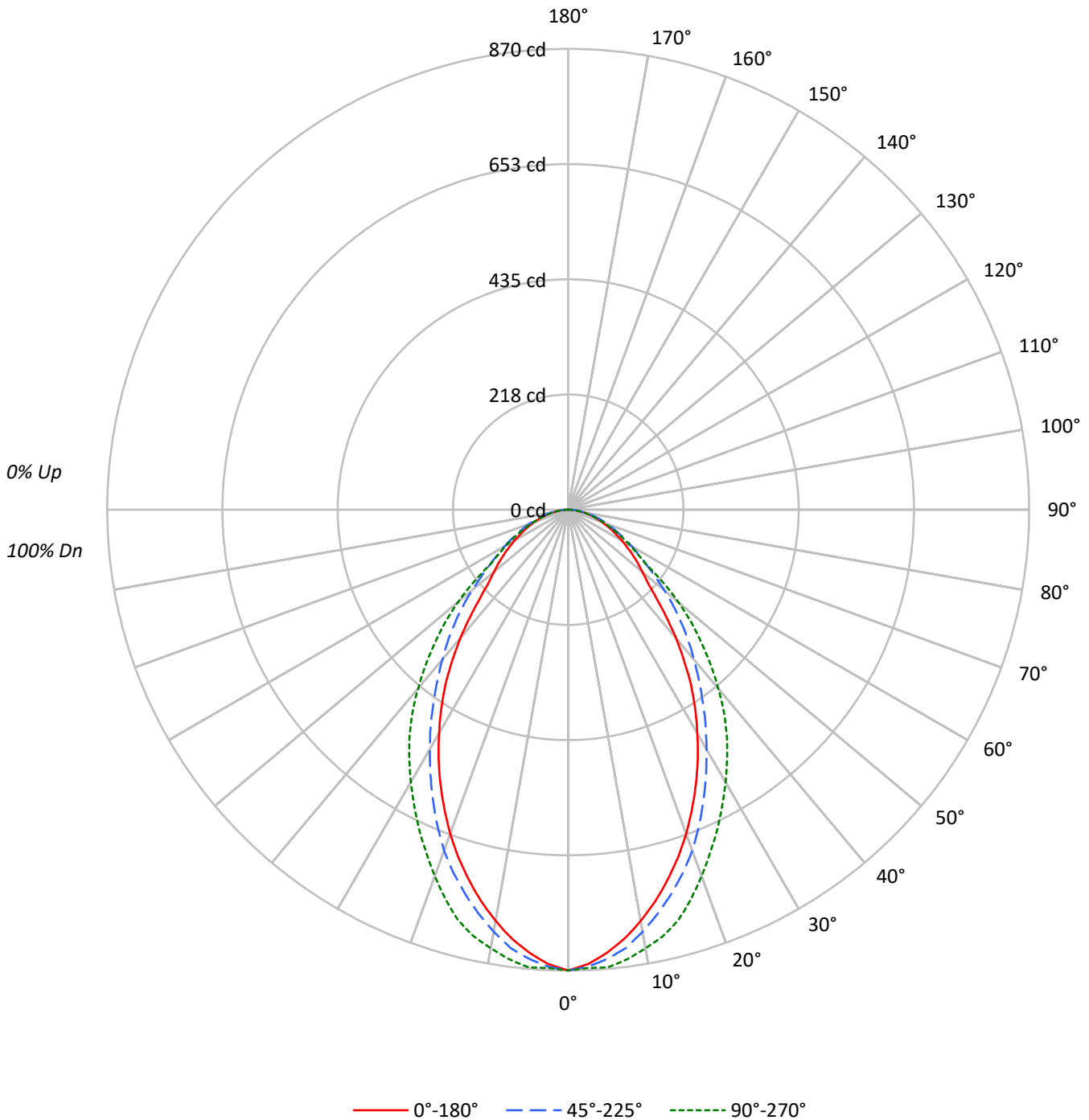
Lumens per Lamp: N/A
Luminaire Lumens: 1418.0 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (Ain): 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	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	68	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59
5	81	70	62	56	80	69	62	56	67	60	55	65	59	55	63	58	54	52
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	40	35	58	46	40	35	46	39	35	45	39	35	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16050	16050	16050
5°	15557	15765	16059
10°	14772	15158	15754
15°	13829	14347	15330
20°	12783	13443	14455
25°	11615	12302	13558
30°	10383	11120	12654
35°	9101	9966	11756
40°	7614	8898	10611
45°	6101	7884	9274
50°	5236	6792	7785
55°	4784	5778	5746
60°	4347	5108	5004
65°	3960	4576	4371
70°	3631	4187	3885
75°	3401	3864	3401
80°	3177	3581	2986
85°	3176	3769	2583

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9274 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	5.7
10°-20°	212.6	15.0
20°-30°	280.4	19.8
30°-40°	282.3	19.9
40°-50°	229.8	16.2
50°-60°	156.7	11.0
60°-70°	101.7	7.2
70°-80°	56.0	3.9
80°-90°	18.3	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°	573.2	40.4
0°-40°	855.6	60.3
0°-60°	1242.1	87.6
0°-90°	1418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	840	856	851	859	867	79
15°	724	743	751	782	802	203
25°	570	589	604	631	666	262
35°	404	425	442	481	522	251
45°	234	263	302	328	355	184
55°	149	164	180	180	179	133
65°	91	108	105	99	100	90
75°	48	59	54	49	48	51
85°	15	20	18	14	12	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	869.8	869.8	869.8	869.8	869.8
2.5°	858.6	872.6	863.3	864.2	866.1
5°	839.9	855.8	851.1	858.6	867.0
7.5°	816.5	832.4	834.3	845.5	855.8
10°	788.4	806.2	809.0	825.9	840.8
12.5°	757.6	777.2	781.0	805.3	824.9
15°	723.9	742.6	751.0	781.9	802.5
17.5°	688.4	706.1	719.2	747.3	770.7
20°	651.0	667.8	684.6	709.9	736.1
22.5°	610.7	629.4	645.3	670.6	700.5
25°	570.5	589.2	604.2	631.3	665.9
27.5°	529.4	548.1	563.0	592.0	629.4
30°	487.3	506.9	521.9	554.6	593.9
32.5°	446.1	465.8	482.6	517.2	558.4
35°	404.0	424.6	442.4	480.7	521.9
37.5°	359.1	382.5	405.0	443.3	483.5
40°	316.1	342.3	369.4	405.0	440.5
42.5°	273.1	302.1	335.8	365.7	398.4
45°	233.8	262.8	302.1	328.3	355.4
47.5°	203.0	227.3	269.4	290.9	315.2
50°	182.4	199.2	236.6	253.5	271.2
52.5°	165.5	179.6	205.8	217.0	226.3
55°	148.7	163.7	179.6	180.5	178.6
57.5°	131.9	148.7	157.1	150.6	154.3
60°	117.8	134.7	138.4	131.9	135.6
62.5°	102.9	121.6	121.6	115.0	116.9
65°	90.7	107.6	104.8	99.1	100.1
67.5°	78.6	95.4	90.7	85.1	85.1
70°	67.3	83.2	77.6	72.0	72.0
72.5°	57.1	70.1	66.4	59.9	58.9
75°	47.7	58.9	54.2	48.6	47.7
77.5°	38.3	47.7	44.0	39.3	37.4
80°	29.9	38.3	33.7	29.9	28.1
82.5°	22.4	29.0	25.3	21.5	19.6
85°	15.0	19.6	17.8	14.0	12.2
87.5°	7.5	13.1	11.2	9.4	7.5
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	16.36	17.80	16.73	18.11	18.43	16.61	18.05	16.98	18.36	18.68
	3H	17.89	19.18	18.27	19.51	19.87	17.97	19.26	18.35	19.58	19.95
	4H	18.45	19.66	18.85	20.01	20.39	18.45	19.65	18.85	20.00	20.38
	6H	18.88	19.99	19.29	20.36	20.75	18.80	19.91	19.21	20.28	20.67
	8H	19.03	20.09	19.46	20.48	20.88	18.91	19.96	19.33	20.35	20.76
	12H	19.14	20.15	19.57	20.54	20.96	18.97	19.99	19.41	20.37	20.80
4H	2H	16.94	18.14	17.34	18.49	18.87	17.13	18.34	17.53	18.69	19.07
	3H	18.74	19.74	19.15	20.14	20.54	18.71	19.71	19.12	20.11	20.51
	4H	19.48	20.38	19.91	20.79	21.23	19.30	20.20	19.74	20.62	21.06
	6H	20.07	20.85	20.52	21.29	21.75	19.77	20.55	20.23	20.99	21.46
	8H	20.28	21.00	20.74	21.45	21.92	19.92	20.65	20.39	21.09	21.56
	12H	20.44	21.09	20.92	21.57	22.04	20.03	20.68	20.51	21.16	21.63
8H	4H	19.75	20.47	20.21	20.92	21.39	19.59	20.32	20.06	20.77	21.24
	6H	20.50	21.10	21.00	21.59	22.07	20.18	20.78	20.68	21.28	21.76
	8H	20.82	21.36	21.34	21.88	22.37	20.40	20.94	20.92	21.46	21.95
	12H	21.11	21.58	21.62	22.08	22.64	20.59	21.06	21.10	21.56	22.12
12H	4H	19.76	20.41	20.24	20.89	21.36	19.63	20.28	20.11	20.76	21.23
	6H	20.55	21.09	21.06	21.60	22.09	20.25	20.79	20.77	21.30	21.79
	8H	20.94	21.42	21.45	21.91	22.48	20.54	21.01	21.05	21.51	22.07