

Scaled data based on original data using
LM-79-2019 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: S122RDR-S675D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S122RDR-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

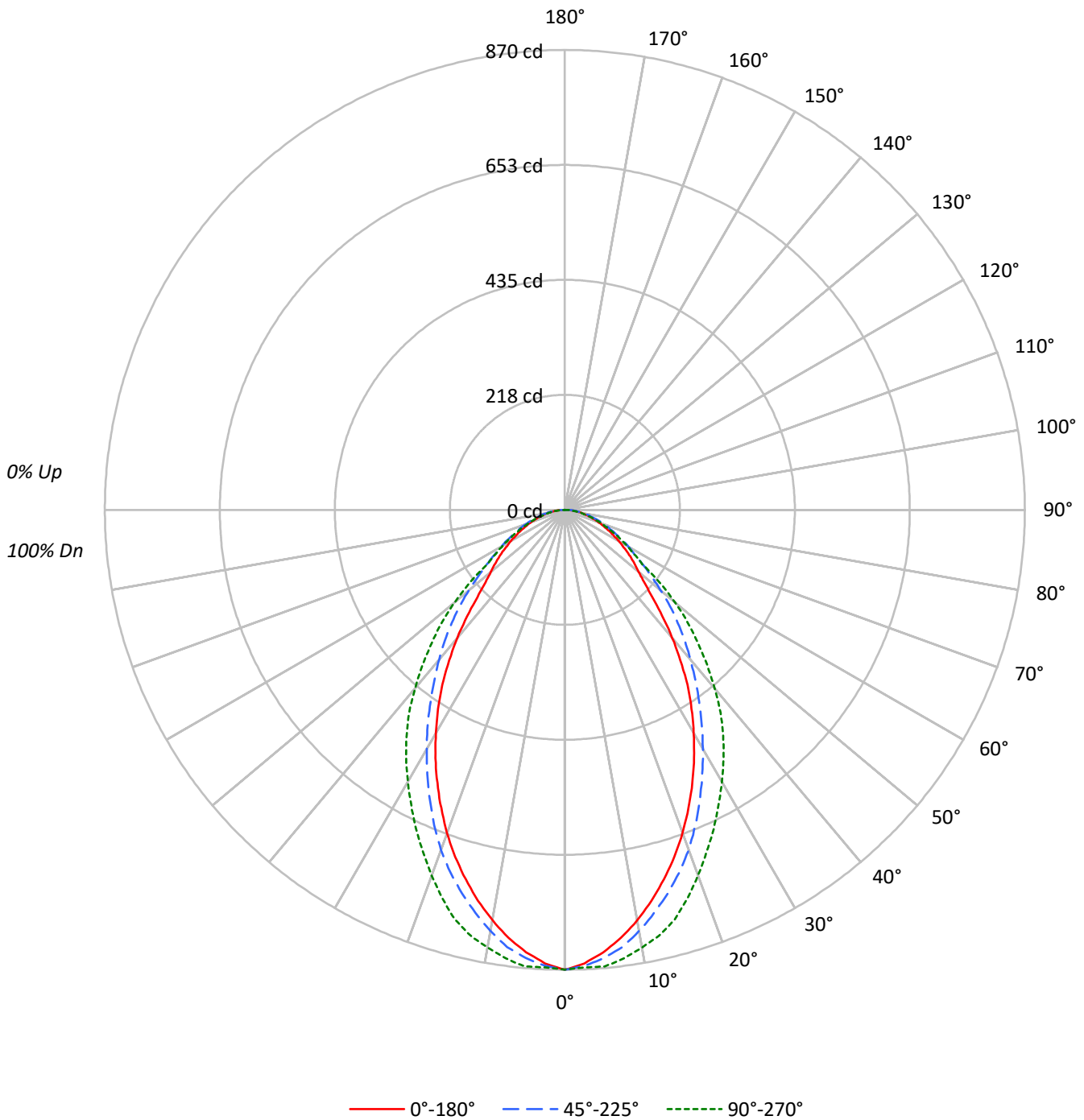
Lumens per Lamp: N/A
Luminaire Lumens: 1418.0 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1058112

CATALOG NUMBER: S122RDR-S675D950-X4F0-XX-UDD-WVL-W

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

(END OF REPORT)