

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: P1059407

Luminaire Tested: S123RDR-S775D950-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1059407  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-67 )  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDR-S775D950-X4F0-XX-UDD-WVL-S  
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

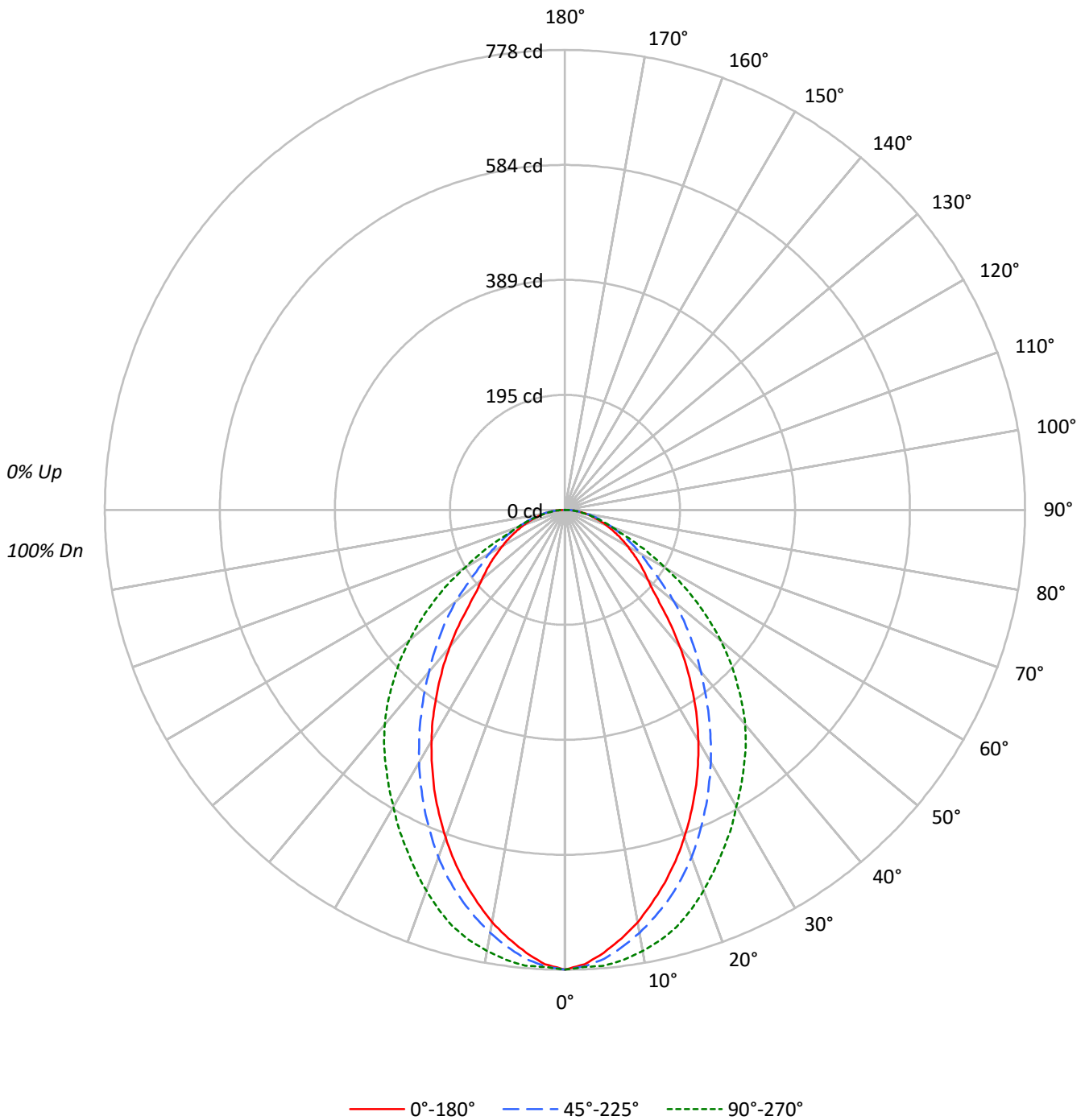
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1404.8 lumens  
Efficiency: N/A  
Efficacy: 54.4 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 1.12 / 1.1  
Luminous Opening: Rectangular (W 0.23' 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87																			
2	102	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75																			
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65																			
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57																			
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51																			
6	75	63	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45																			
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	43	41																			
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37																			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	39	35	34																			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9132	9132	9132
5°	8865	8984	9123
10°	8447	8664	9033
15°	7936	8279	8878
20°	7371	7815	8567
25°	6768	7265	8209
30°	6119	6687	7862
35°	5397	6077	7567
40°	4640	5478	7267
45°	3814	4935	6814
50°	3347	4397	6279
55°	3097	3751	5562
60°	2849	3448	4603
65°	2659	3167	3623
70°	2503	2881	2881
75°	2359	2645	2482
80°	2218	2407	2096
85°	2088	2331	1603

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6814 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.9	5.1
10°-20°	192.8	13.7
20°-30°	261.4	18.6
30°-40°	273.3	19.5
40°-50°	237.0	16.9
50°-60°	176.3	12.6
60°-70°	113.1	8.1
70°-80°	60.7	4.3
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°	526.1	37.4
0°-40°	799.3	56.9
0°-60°	1212.6	86.3
0°-90°	1404.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1404.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	752	765	762	768	774	70
15°	653	668	681	708	730	183
25°	522	539	561	598	634	239
35°	376	395	424	478	528	235
45°	230	247	297	361	410	181
55°	151	155	183	235	272	135
65°	96	104	114	121	130	95
75°	52	60	58	56	55	55
85°	16	19	17	15	12	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	777.7	777.7	777.7	777.7	777.7
2.5°	769.5	780.4	773.1	773.1	774.0
5°	752.1	764.9	762.2	767.6	774.0
7.5°	731.2	744.8	745.8	758.5	767.6
10°	708.4	722.1	726.6	744.8	757.6
12.5°	681.0	696.5	704.7	727.5	745.8
15°	652.8	668.3	681.0	708.4	730.3
17.5°	622.7	638.2	654.6	685.6	709.3
20°	589.9	606.3	625.4	656.4	685.6
22.5°	556.1	573.4	593.5	627.2	660.1
25°	522.4	538.8	560.7	598.1	633.6
27.5°	486.8	504.2	527.0	568.0	608.1
30°	451.3	468.6	493.2	537.0	579.8
32.5°	414.8	432.1	458.6	507.8	554.3
35°	376.5	394.8	423.9	477.7	527.9
37.5°	340.1	357.4	390.2	449.5	502.3
40°	302.7	320.9	357.4	421.2	474.1
42.5°	266.2	284.4	327.3	391.1	443.1
45°	229.7	247.1	297.2	361.0	410.3
47.5°	201.5	214.2	268.9	329.1	378.3
50°	183.2	187.8	240.7	298.1	343.7
52.5°	166.8	170.5	209.7	267.1	308.1
55°	151.3	155.0	183.2	235.2	271.7
57.5°	135.8	140.4	163.2	202.4	235.2
60°	121.3	126.7	146.8	173.2	196.0
62.5°	108.5	114.9	130.4	146.8	162.3
65°	95.7	103.9	114.0	121.3	130.4
67.5°	83.9	93.0	98.5	100.3	101.2
70°	72.9	82.1	83.9	83.9	83.9
72.5°	62.0	72.0	70.2	69.3	68.4
75°	52.0	60.2	58.3	55.6	54.7
77.5°	41.9	49.2	46.5	44.7	41.9
80°	32.8	38.3	35.6	33.7	31.0
82.5°	24.6	28.3	25.5	23.7	21.0
85°	15.5	19.1	17.3	14.6	11.9
87.5°	8.2	10.9	9.1	8.2	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)