

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: P1059404

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-68)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDR-S775D950-X4F0-XX-UDD-SVL-S
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

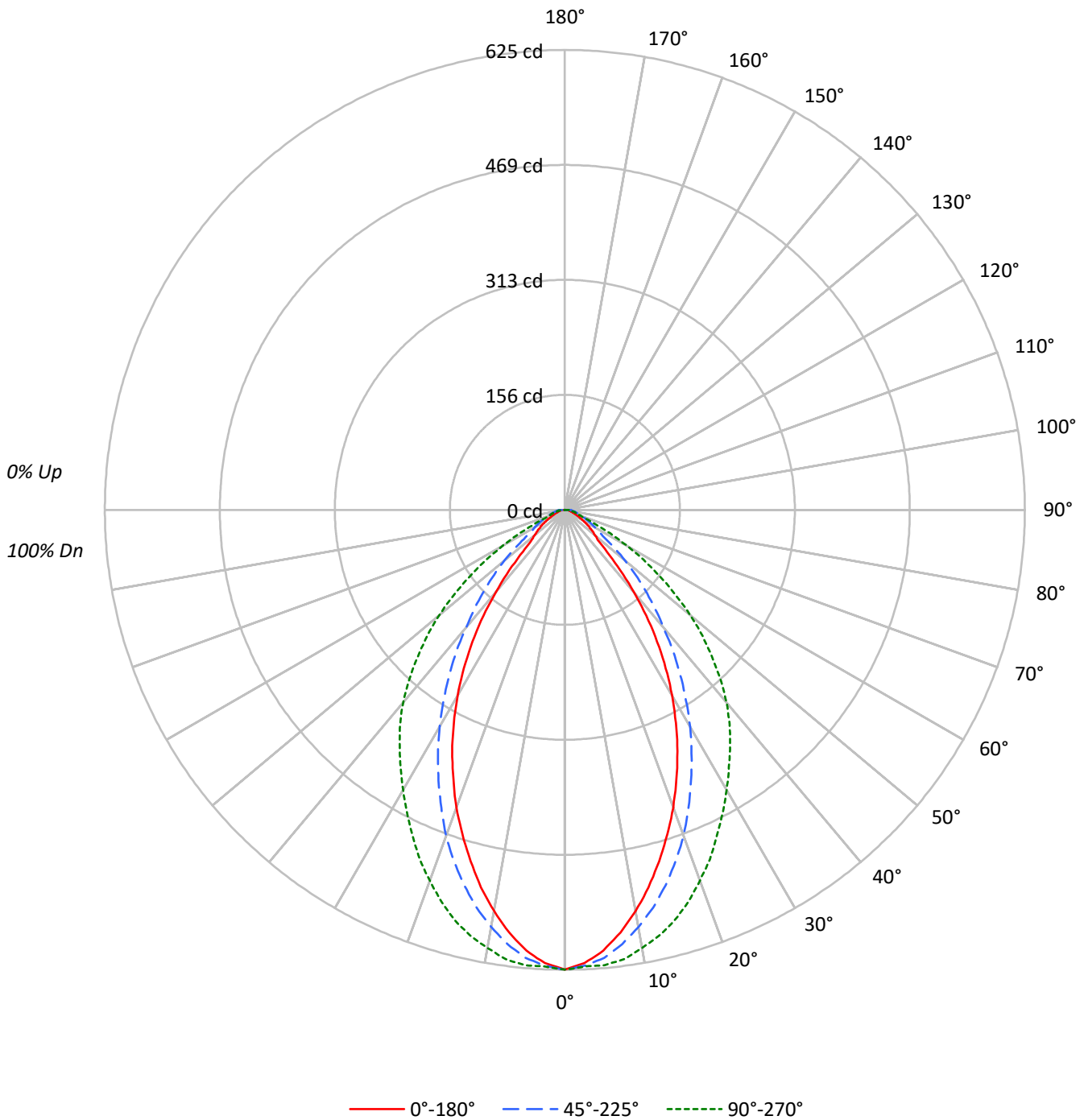
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 836.8 lumens
Efficiency: N/A
Efficacy: 32.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
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					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	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	101	99	97	98	96	94	94	93	91	89				
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79				
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71				
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	66	64				
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58				
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	63	58	54	52				
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48				
8	70	58	51	46	69	58	51	46	57	50	46	56	50	46	54	49	45	44				
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40				
10	62	51	44	39	61	50	44	39	50	43	39	49	43	39	48	43	39	37				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7337	7337	7337
5°	7085	7203	7321
10°	6602	6862	7210
15°	6010	6420	7019
20°	5380	5893	6702
25°	4691	5259	6334
30°	3946	4613	5961
35°	3138	3909	5609
40°	2236	3188	5242
45°	1333	2559	4696
50°	983	1949	4066
55°	821	1327	3231
60°	665	1092	2271
65°	533	936	1217
70°	439	814	752
75°	413	785	703
80°	433	866	676
85°	620	1226	862

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4696 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	6.9
10°-20°	149.1	17.8
20°-30°	190.2	22.7
30°-40°	178.9	21.4
40°-50°	128.6	15.4
50°-60°	73.7	8.8
60°-70°	33.7	4.0
70°-80°	16.9	2.0
80°-90°	8.3	1.0
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°	396.7	47.4
0°-40°	575.6	68.8
0°-60°	777.9	93.0
0°-90°	836.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	625	625	625	625	625	
5°	601	613	611	616	621	56
15°	494	512	528	556	577	138
25°	362	378	406	450	489	165
35°	219	234	273	335	391	136
45°	80	98	154	227	283	67
55°	40	41	65	120	158	36
65°	19	26	34	37	44	19
75°	9	18	17	16	16	10
85°	5	9	9	8	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	624.8	624.8	624.8	624.8	624.8
2.5°	616.6	625.7	620.2	620.2	621.1
5°	601.1	612.9	611.1	615.7	621.1
7.5°	579.2	592.0	595.6	606.6	615.7
10°	553.7	568.2	575.5	592.9	604.7
12.5°	525.4	541.8	553.7	575.5	592.9
15°	494.4	511.7	528.1	556.4	577.4
17.5°	462.4	479.8	500.7	533.6	558.2
20°	430.5	447.8	471.6	506.2	536.3
22.5°	395.9	413.2	438.7	477.9	514.4
25°	362.1	378.5	405.9	449.7	488.9
27.5°	326.5	343.0	373.1	420.5	464.3
30°	291.0	307.4	340.2	391.3	439.6
32.5°	255.4	270.9	306.5	363.0	415.0
35°	218.9	234.4	272.7	334.7	391.3
37.5°	181.5	197.0	241.7	309.2	367.6
40°	145.9	163.3	208.0	283.7	342.0
42.5°	111.3	129.5	180.6	256.3	312.9
45°	80.3	97.6	154.1	227.1	282.8
47.5°	61.1	70.2	130.4	197.9	253.6
50°	53.8	54.7	106.7	171.5	222.6
52.5°	46.5	47.4	83.0	145.9	189.7
55°	40.1	41.0	64.8	119.5	157.8
57.5°	33.7	35.6	52.9	94.9	126.8
60°	28.3	31.9	46.5	72.1	96.7
62.5°	22.8	29.2	40.1	52.9	69.3
65°	19.2	26.5	33.7	37.4	43.8
67.5°	15.5	24.6	28.3	26.5	26.5
70°	12.8	21.9	23.7	21.9	21.9
72.5°	10.9	21.0	20.1	18.2	18.2
75°	9.1	18.2	17.3	15.5	15.5
77.5°	8.2	15.5	14.6	13.7	12.8
80°	6.4	12.8	12.8	11.9	10.0
82.5°	5.5	10.9	10.9	10.0	8.2
85°	4.6	9.1	9.1	8.2	6.4
87.5°	3.6	8.2	8.2	7.3	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)