

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: P1060620

Luminaire Tested: S124RDR-S795D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060620  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-74)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S795D950-X4F0-XX-UDD-SVL-W  
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

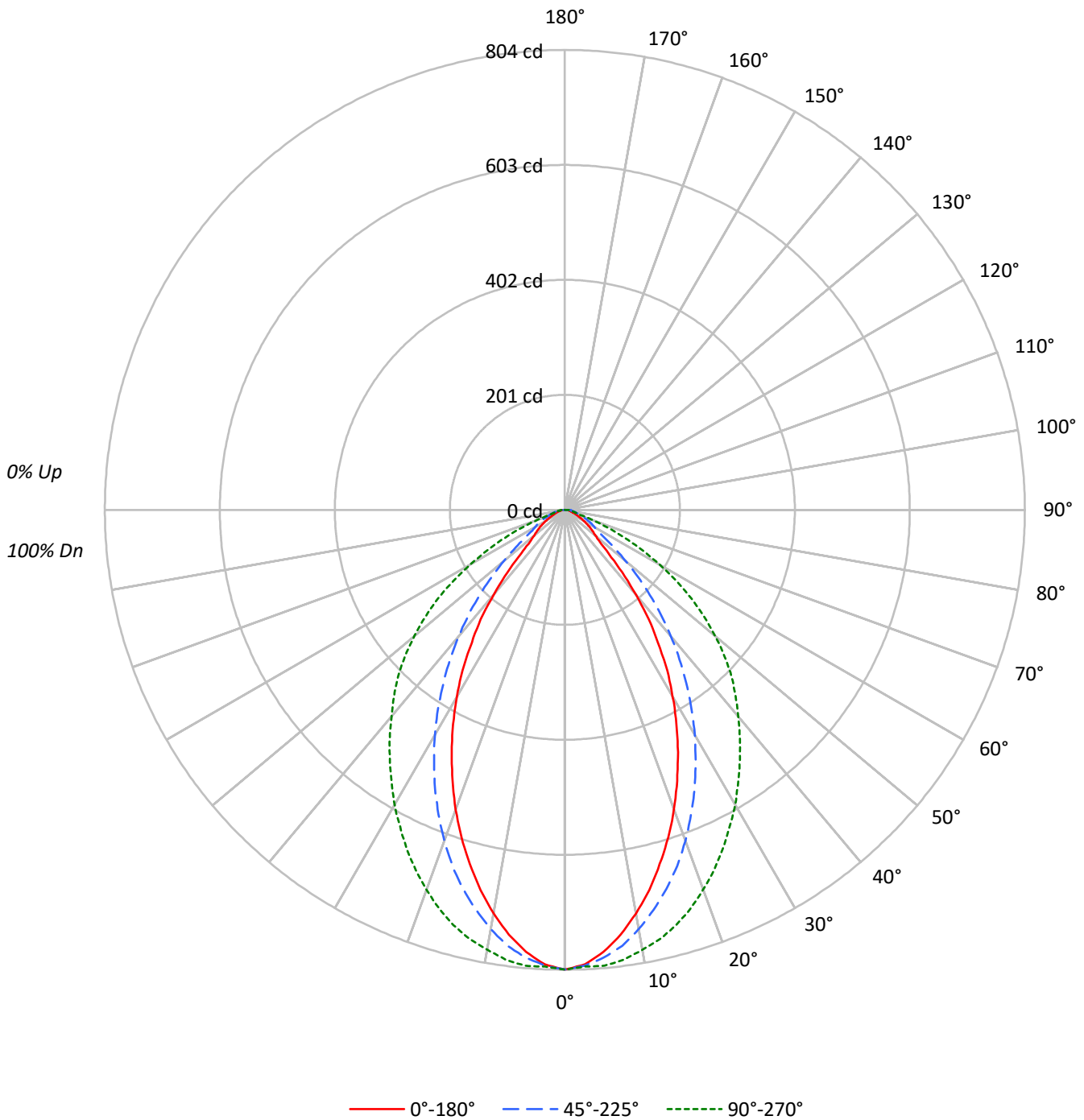
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1137.4 lumens  
Efficiency: N/A  
Efficacy: 44.1 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01  
Luminous Opening: Rectangular (W 0.31' 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			100	
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89	
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79	
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70	
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63			63	
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57			57	
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51			51	
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47			47	
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43			43	
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39			39	
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			36	

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

	0°	45°	90°
0°	6920	6920	6920
5°	6706	6791	6915
10°	6265	6508	6830
15°	5715	6116	6700
20°	5110	5644	6475
25°	4445	5101	6210
30°	3750	4517	5919
35°	2982	3888	5606
40°	2170	3240	5299
45°	1312	2559	5019
50°	938	1853	4595
55°	796	1254	4058
60°	649	1021	3277
65°	511	915	2360
70°	431	768	1244
75°	389	715	629
80°	402	714	625
85°	534	1067	711

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5019 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.0	6.5
10°-20°	193.9	17.0
20°-30°	251.4	22.1
30°-40°	242.0	21.3
40°-50°	180.1	15.8
50°-60°	110.7	9.7
60°-70°	54.4	4.8
70°-80°	21.2	1.9
80°-90°	9.7	0.9
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°	519.3	45.7
0°-40°	761.3	66.9
0°-60°	1052.1	92.5
0°-90°	1137.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1137.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	776	787	786	793	800	72
15°	641	662	686	727	752	179
25°	468	493	537	604	654	214
35°	284	311	370	462	533	177
45°	108	134	210	324	412	89
55°	53	55	84	190	270	48
65°	25	27	45	72	116	26
75°	12	21	22	20	19	13
85°	5	10	11	11	7	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	803.6	803.6	803.6	803.6	803.6
2.5°	795.5	804.5	797.3	798.2	799.1
5°	775.8	787.4	785.6	792.8	800.0
7.5°	748.8	762.3	768.6	782.9	792.8
10°	716.5	731.8	744.3	767.7	781.1
12.5°	680.6	698.5	716.5	747.9	768.6
15°	641.1	661.7	686.0	727.3	751.5
17.5°	600.7	621.3	652.8	700.3	730.9
20°	557.6	580.0	615.9	668.9	706.6
22.5°	512.7	536.9	576.4	636.6	681.5
25°	467.8	492.9	536.9	604.3	653.6
27.5°	422.9	447.1	494.7	570.1	624.0
30°	377.1	402.2	454.3	533.3	595.3
32.5°	333.1	356.5	412.1	498.3	563.9
35°	283.7	310.7	369.9	462.4	533.3
37.5°	241.5	265.8	329.5	426.5	502.8
40°	193.0	220.0	288.2	391.5	471.4
42.5°	148.1	175.1	248.7	356.5	441.8
45°	107.7	133.8	210.1	324.1	412.1
47.5°	81.7	97.0	172.4	292.7	378.9
50°	70.0	74.5	138.3	258.6	343.0
52.5°	62.0	63.7	107.7	224.5	307.1
55°	53.0	54.8	83.5	190.3	270.3
57.5°	44.9	45.8	67.3	158.0	230.8
60°	37.7	38.6	59.3	126.6	190.3
62.5°	31.4	32.3	53.0	97.9	151.7
65°	25.1	26.9	44.9	71.8	115.8
67.5°	20.7	24.2	37.7	50.3	80.8
70°	17.1	23.3	30.5	35.0	49.4
72.5°	14.4	21.5	26.0	25.1	24.2
75°	11.7	20.7	21.5	19.8	18.9
77.5°	9.9	18.0	18.0	16.2	15.3
80°	8.1	14.4	14.4	14.4	12.6
82.5°	7.2	11.7	12.6	12.6	9.9
85°	5.4	9.9	10.8	10.8	7.2
87.5°	3.6	9.0	9.9	9.0	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)