

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: P1060613

Luminaire Tested: S124RDR-S795D940-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060613  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S795D940-X4F0-XX-UDD-WVL-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

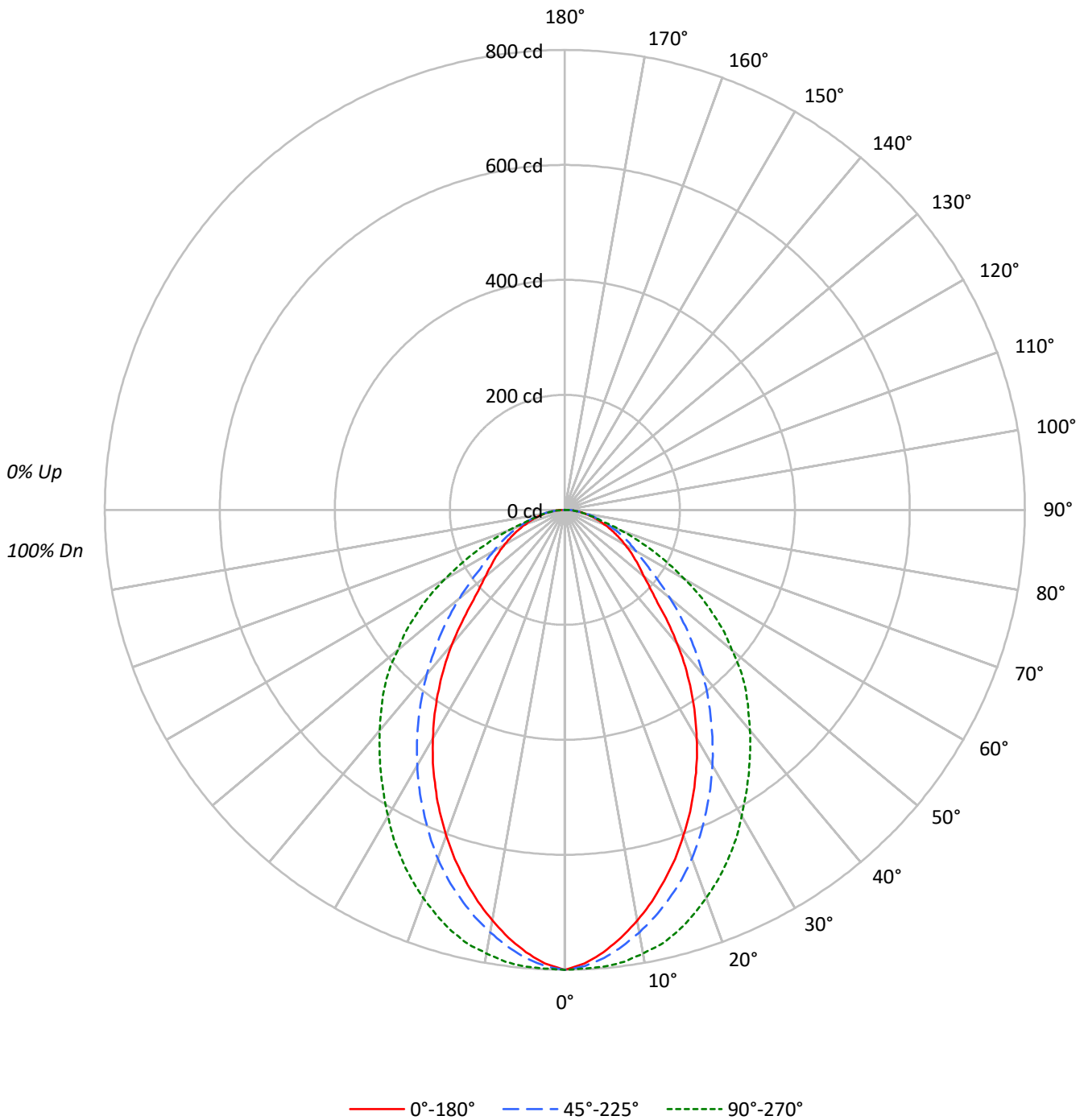
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1456.9 lumens  
Efficiency: N/A  
Efficacy: 56.5 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1  
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										
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	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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87					87															
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75					75															
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65					65															
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57					57															
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	52	50					50															
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45					45															
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41					41															
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37					37															
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34					34															
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31					31															

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

	0°	45°	90°
0°	6891	6891	6891
5°	6678	6765	6895
10°	6345	6527	6851
15°	5952	6244	6767
20°	5527	5919	6588
25°	5060	5516	6376
30°	4562	5105	6114
35°	4021	4656	5864
40°	3423	4196	5630
45°	2779	3708	5424
50°	2405	3191	5079
55°	2229	2707	4710
60°	2080	2442	4132
65°	1948	2290	3435
70°	1815	2112	2598
75°	1730	1953	1870
80°	1622	1790	1582
85°	1492	1660	1245

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5424 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.9	5.1
10°-20°	198.6	13.6
20°-30°	271.2	18.6
30°-40°	284.1	19.5
40°-50°	245.9	16.9
50°-60°	184.8	12.7
60°-70°	119.1	8.2
70°-80°	61.1	4.2
80°-90°	18.2	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°	543.6	37.3
0°-40°	827.7	56.8
0°-60°	1258.4	86.4
0°-90°	1456.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1456.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	772	784	783	788	798	72
15°	668	684	700	732	759	187
25°	533	553	580	626	671	244
35°	382	404	443	502	558	238
45°	228	252	304	379	445	180
55°	148	154	180	258	314	133
65°	96	97	112	136	169	95
75°	52	58	59	58	56	55
85°	15	18	17	16	13	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	800.2	800.2	800.2	800.2	800.2
2.5°	790.2	800.2	794.4	796.0	798.6
5°	772.5	784.3	782.6	788.5	797.7
7.5°	750.7	763.3	765.8	779.3	792.7
10°	725.6	739.8	746.5	766.7	783.5
12.5°	697.9	713.0	724.7	749.9	774.2
15°	667.7	684.5	700.4	732.3	759.1
17.5°	636.7	653.4	674.4	709.6	739.8
20°	603.1	621.6	645.9	682.8	718.9
22.5°	568.7	588.0	614.0	654.3	696.2
25°	532.6	552.8	580.5	625.8	671.1
27.5°	496.6	516.7	547.7	595.6	645.0
30°	458.8	479.8	513.4	565.4	614.9
32.5°	421.1	443.7	478.1	533.5	586.3
35°	382.5	404.3	442.9	501.6	557.8
37.5°	343.9	366.6	407.7	470.6	529.3
40°	304.5	328.0	373.3	439.5	500.8
42.5°	265.1	290.2	338.0	407.7	472.3
45°	228.2	251.6	304.5	379.1	445.4
47.5°	200.5	216.4	270.9	351.5	415.2
50°	179.5	187.9	238.2	321.3	379.1
52.5°	163.6	169.4	208.0	288.6	349.8
55°	148.5	153.5	180.3	257.5	313.7
57.5°	135.0	137.6	159.4	227.3	279.3
60°	120.8	123.3	141.8	194.6	239.9
62.5°	108.2	109.9	127.5	163.6	203.8
65°	95.6	97.3	112.4	135.9	168.6
67.5°	83.9	86.4	98.1	110.7	134.2
70°	72.1	77.2	83.9	89.8	103.2
72.5°	62.1	67.1	70.5	72.1	73.0
75°	52.0	57.9	58.7	57.9	56.2
77.5°	41.9	47.0	47.0	45.3	43.6
80°	32.7	36.9	36.1	34.4	31.9
82.5°	24.3	26.8	26.0	24.3	21.8
85°	15.1	17.6	16.8	15.9	12.6
87.5°	7.5	10.1	9.2	8.4	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)