

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: P1060374

Luminaire Tested: S124RDR-S1195D950-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-75)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S1195D950-X4F0-XX-UDD-BVL-W  
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

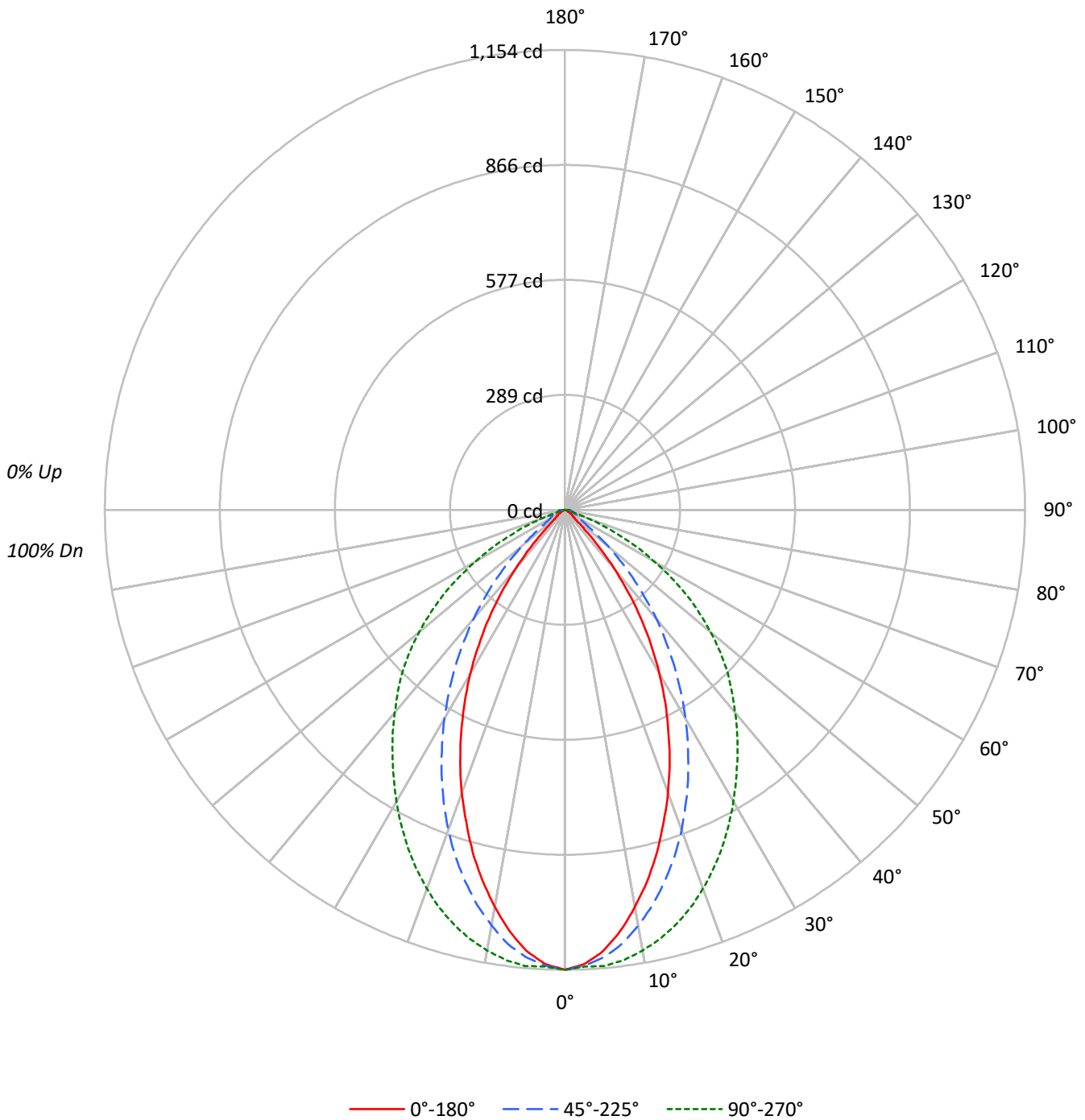
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1454.4 lumens  
Efficiency: N/A  
Efficacy: 34.8 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.96  
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.8  
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90						90														
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81						81														
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72						72														
4	91	82	75	70	89	81	75	70	79	73	69	76	72	68	74	70	67	65						65														
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59						59														
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54						54														
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49						49														
8	71	60	53	48	70	59	52	48	58	52	48	57	51	47	56	51	47	45						45														
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42						42														
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39						39														

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

	0°	45°	90°
0°	9937	9937	9937
5°	9600	9741	9929
10°	8847	9262	9818
15°	7945	8609	9600
20°	6926	7832	9272
25°	5842	6949	8867
30°	4714	6007	8404
35°	3488	5026	7930
40°	2162	4004	7461
45°	857	2919	7027
50°	380	1833	6387
55°	305	956	5592
60°	210	723	4455
65°	139	717	3062
70°	136	647	1433
75°	180	632	632
80°	268	739	739
85°	534	1472	1067

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7027 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.9	7.3
10°-20°	273.2	18.8
20°-30°	344.9	23.7
30°-40°	316.4	21.8
40°-50°	215.5	14.8
50°-60°	117.4	8.1
60°-70°	50.8	3.5
70°-80°	18.5	1.3
80°-90°	11.9	0.8
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°	723.9	49.8
0°-40°	1040.3	71.5
0°-60°	1373.2	94.4
0°-90°	1454.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1454.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1111	1126	1127	1139	1149	103
15°	891	922	966	1035	1077	248
25°	615	658	731	848	933	281
35°	332	381	478	630	754	205
45°	70	118	240	425	577	65
55°	20	22	64	234	372	18
65°	7	10	35	73	150	8
75°	5	18	19	19	19	6
85°	5	12	15	15	11	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1154.0	1154.0	1154.0	1154.0	1154.0
2.5°	1140.4	1154.0	1144.5	1147.2	1147.2
5°	1110.6	1125.5	1126.9	1139.1	1148.6
7.5°	1065.9	1087.6	1098.4	1122.8	1139.1
10°	1011.8	1037.5	1059.2	1101.2	1122.8
12.5°	953.5	983.3	1015.8	1071.4	1102.5
15°	891.2	922.4	965.7	1034.8	1076.8
17.5°	822.1	860.1	912.9	995.5	1047.0
20°	755.8	793.7	854.7	948.1	1011.8
22.5°	686.7	726.0	793.7	898.0	973.8
25°	614.9	658.3	731.4	847.9	933.2
27.5°	544.5	590.5	667.7	795.1	889.9
30°	474.1	520.1	604.1	740.9	845.2
32.5°	402.3	449.7	540.4	684.0	799.1
35°	331.8	380.6	478.1	629.8	754.4
37.5°	260.1	311.5	415.8	577.0	709.7
40°	192.3	243.8	356.2	524.2	663.7
42.5°	128.7	180.1	295.3	472.7	620.3
45°	70.4	117.8	239.7	425.3	577.0
47.5°	37.9	65.0	185.6	379.2	528.2
50°	28.4	35.2	136.8	330.5	476.8
52.5°	24.4	27.1	94.8	279.0	425.3
55°	20.3	21.7	63.7	234.3	372.5
57.5°	16.3	17.6	47.4	189.6	315.6
60°	12.2	14.9	42.0	146.3	258.7
62.5°	9.5	12.2	39.3	107.0	204.5
65°	6.8	9.5	35.2	73.1	150.3
67.5°	6.8	10.8	29.8	47.4	101.6
70°	5.4	14.9	25.7	31.2	56.9
72.5°	5.4	16.3	21.7	21.7	21.7
75°	5.4	17.6	19.0	19.0	19.0
77.5°	5.4	16.3	17.6	16.3	16.3
80°	5.4	14.9	14.9	14.9	14.9
82.5°	5.4	13.5	14.9	14.9	12.2
85°	5.4	12.2	14.9	14.9	10.8
87.5°	4.1	12.2	13.5	13.5	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)