

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1060380

Luminaire Tested: S124RDRP-S1195D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1060380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-73)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDRP-S1195D950-X4F0-XX-UDD-WVL-W  
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

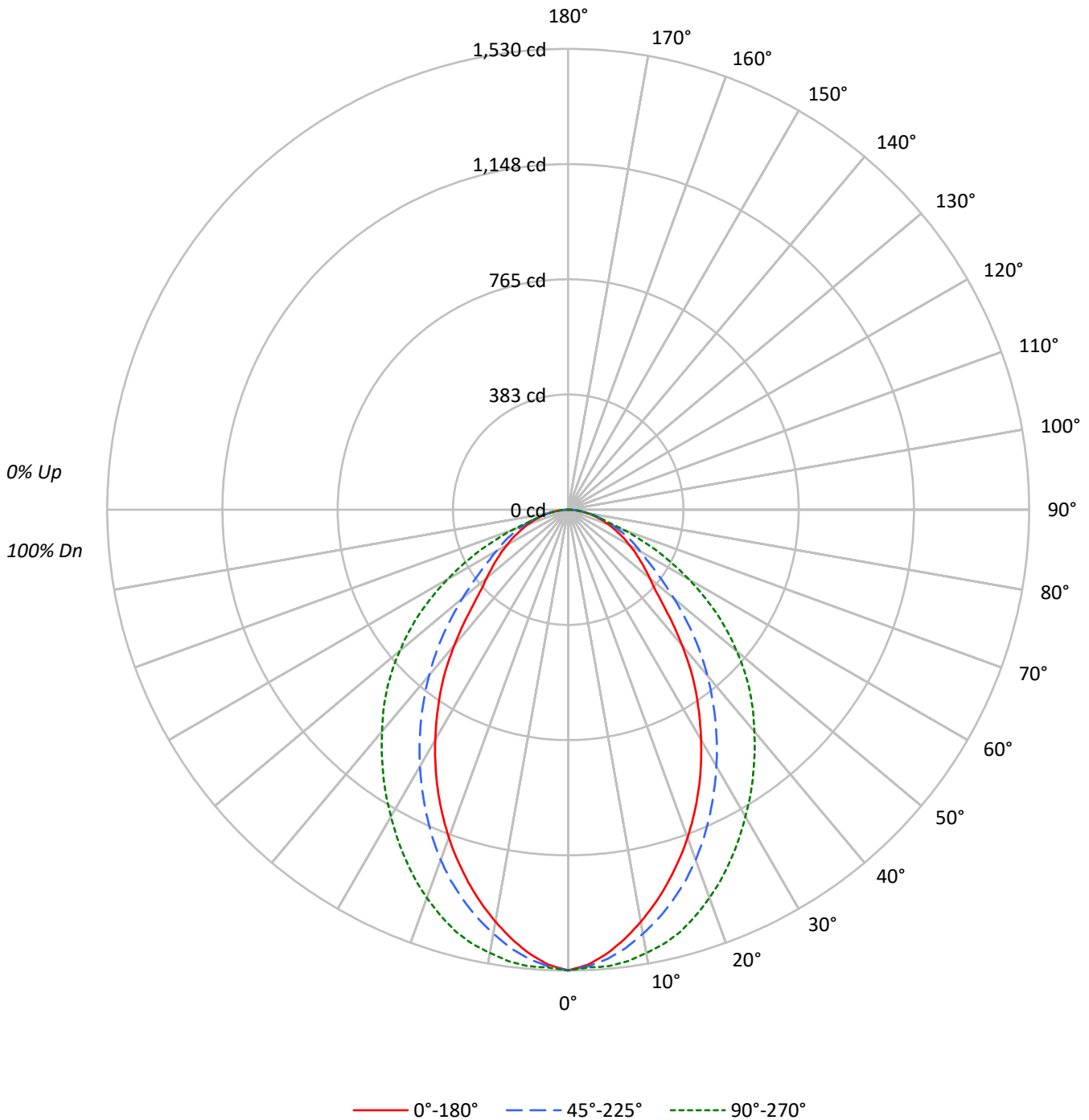
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2806.7 lumens  
Efficiency: N/A  
Efficacy: 67.1 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11  
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				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32

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

	0°	45°	90°
0°	13172	13172	13172
5°	12789	12941	13151
10°	12144	12499	13067
15°	11416	11971	12911
20°	10618	11337	12565
25°	9736	10584	12153
30°	8775	9785	11696
35°	7770	8950	11255
40°	6604	8080	10804
45°	5407	7138	10385
50°	4733	6129	9774
55°	4349	5283	9044
60°	4033	4755	7972
65°	3778	4468	6675
70°	3545	4089	5010
75°	3334	3736	3646
80°	3089	3422	3089
85°	2806	3339	2678

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10385 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.4	5.0
10°-20°	380.3	13.6
20°-30°	519.9	18.5
30°-40°	546.4	19.5
40°-50°	474.1	16.9
50°-60°	357.7	12.7
60°-70°	231.8	8.3
70°-80°	119.0	4.2
80°-90°	36.1	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°	1041.6	37.1
0°-40°	1588.0	56.6
0°-60°	2419.8	86.2
0°-90°	2806.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2806.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1480	1500	1497	1509	1521	138
15°	1280	1312	1343	1404	1448	359
25°	1025	1061	1114	1199	1279	470
35°	739	780	851	965	1071	460
45°	444	486	586	732	853	350
55°	290	298	352	500	602	261
65°	185	190	219	265	328	185
75°	100	112	112	114	110	106
85°	28	35	34	32	27	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1512.0	1530.9	1517.4	1520.1	1521.4
5°	1479.5	1499.8	1497.1	1509.3	1521.4
7.5°	1437.5	1461.9	1467.3	1491.7	1512.0
10°	1388.8	1415.9	1429.4	1468.7	1494.4
12.5°	1337.4	1364.4	1388.8	1438.9	1475.4
15°	1280.5	1311.6	1342.8	1403.7	1448.3
17.5°	1220.9	1253.4	1292.7	1359.0	1411.8
20°	1158.7	1191.2	1237.2	1308.9	1371.2
22.5°	1092.4	1128.9	1177.6	1254.8	1327.9
25°	1024.7	1061.2	1114.0	1199.3	1279.1
27.5°	954.3	992.2	1049.0	1143.8	1229.1
30°	882.5	923.2	984.1	1084.2	1176.3
32.5°	809.5	852.8	917.7	1024.7	1124.8
35°	739.1	779.7	851.4	965.1	1070.7
37.5°	666.0	706.6	783.7	906.9	1016.6
40°	587.5	632.1	718.8	846.0	961.1
42.5°	514.4	559.0	652.4	787.8	908.3
45°	444.0	485.9	586.1	732.3	852.8
47.5°	389.8	419.6	519.8	678.2	793.2
50°	353.3	366.8	457.5	618.6	729.6
52.5°	320.8	331.6	400.7	559.0	667.3
55°	289.7	297.8	351.9	499.5	602.4
57.5°	262.6	266.7	308.6	439.9	532.0
60°	234.2	239.6	276.1	379.0	462.9
62.5°	211.2	213.9	247.7	320.8	393.9
65°	185.4	189.5	219.3	265.3	327.6
67.5°	162.4	169.2	189.5	216.6	258.5
70°	140.8	150.2	162.4	176.0	199.0
72.5°	120.5	131.3	138.1	143.5	139.4
75°	100.2	112.3	112.3	113.7	109.6
77.5°	81.2	92.0	90.7	89.3	83.9
80°	62.3	71.7	69.0	67.7	62.3
82.5°	46.0	52.8	50.1	48.7	42.0
85°	28.4	35.2	33.8	32.5	27.1
87.5°	13.5	20.3	19.0	17.6	12.2
90°	0.0	0.0	0.0	0.0	0.0

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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.46	16.95	15.83	17.26	17.58	19.20	20.68	19.56	21.00	21.31
	3H	17.13	18.46	17.51	18.79	19.15	20.32	21.66	20.70	21.98	22.35
	4H	17.79	19.04	18.19	19.39	19.77	20.62	21.87	21.02	22.22	22.60
	6H	18.30	19.45	18.71	19.82	20.21	20.82	21.97	21.23	22.34	22.73
	8H	18.48	19.57	18.90	19.96	20.37	20.87	21.97	21.30	22.36	22.76
	12H	18.60	19.65	19.03	20.03	20.46	20.91	21.96	21.34	22.34	22.77
4H	2H	16.25	17.50	16.65	17.85	18.23	19.36	20.61	19.76	20.96	21.34
	3H	18.12	19.16	18.53	19.56	19.96	20.69	21.73	21.11	22.13	22.53
	4H	18.93	19.86	19.36	20.28	20.72	21.11	22.04	21.54	22.46	22.90
	6H	19.57	20.38	20.03	20.82	21.28	21.43	22.24	21.89	22.69	23.15
	8H	19.79	20.55	20.26	21.00	21.46	21.53	22.28	21.99	22.73	23.20
	12H	19.96	20.63	20.44	21.11	21.58	21.60	22.27	22.08	22.75	23.22
8H	4H	19.28	20.03	19.74	20.48	20.95	21.24	22.00	21.71	22.45	22.91
	6H	20.07	20.69	20.56	21.18	21.66	21.66	22.29	22.16	22.78	23.26
	8H	20.38	20.94	20.90	21.46	21.94	21.82	22.38	22.33	22.89	23.38
	12H	20.65	21.14	21.16	21.64	22.20	21.96	22.46	22.47	22.95	23.51
12H	4H	19.31	19.98	19.79	20.46	20.93	21.25	21.92	21.73	22.40	22.87
	6H	20.13	20.69	20.64	21.20	21.69	21.68	22.25	22.20	22.76	23.25
	8H	20.51	21.01	21.02	21.50	22.07	21.89	22.39	22.40	22.88	23.45