

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: P1060374

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
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: S124RDRP-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: -

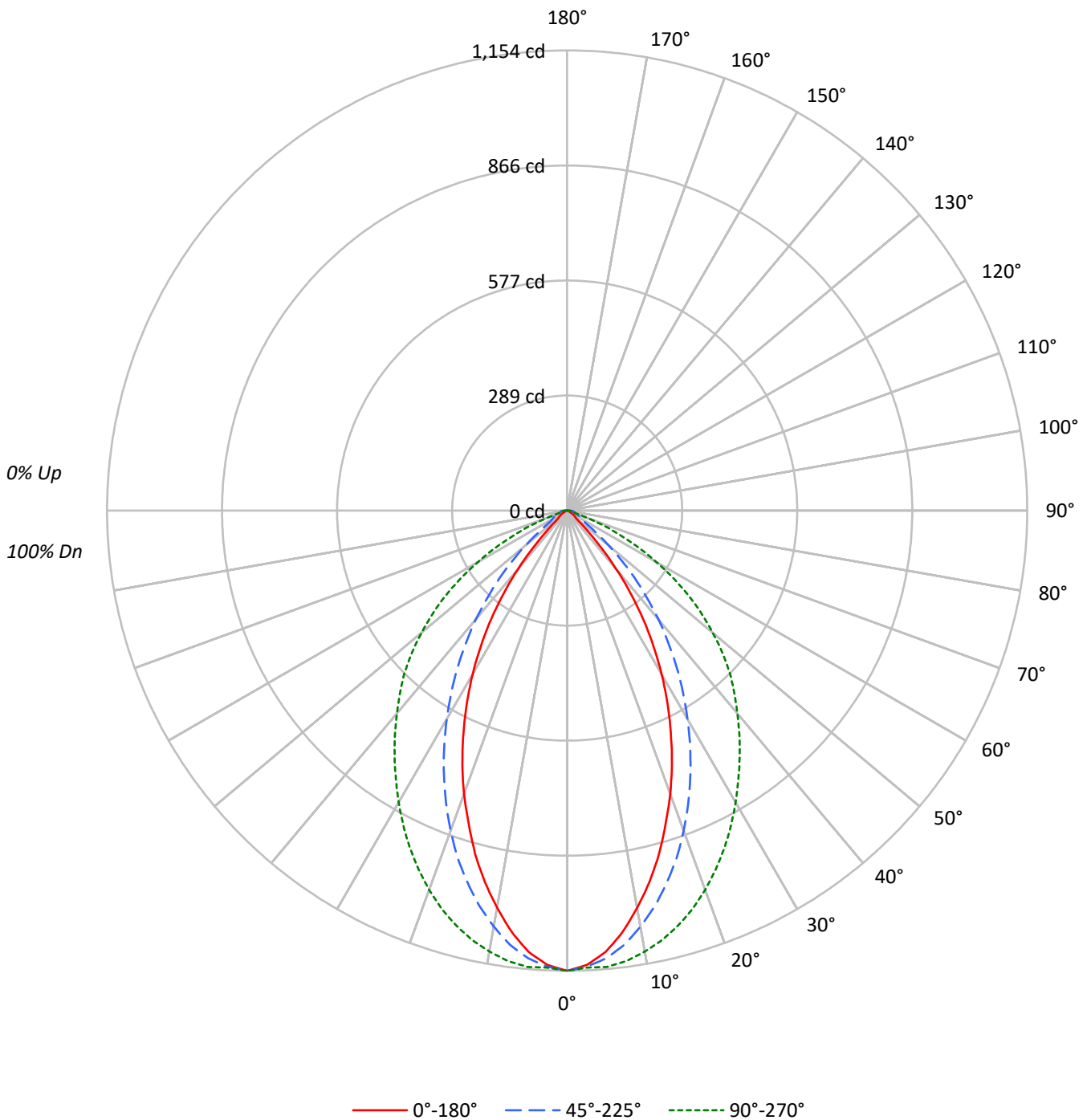
**Summary**

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 (A<sub>in</sub>): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	91	82	75	70	89	81	75	70	79	73	69	76	72	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	48	57	51	47	56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	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

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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	0.00	0.29	0.00	0.60	0.92	16.39	17.67	16.75	17.98	18.29
	3H	0.44	1.57	0.82	1.90	2.27	16.76	17.89	17.14	18.22	18.59
	4H	1.66	2.71	2.06	3.06	3.45	16.74	17.79	17.14	18.14	18.53
	6H	2.84	3.81	3.26	4.18	4.57	16.73	17.70	17.14	18.07	18.46
	8H	3.43	4.34	3.86	4.73	5.14	16.73	17.64	17.16	18.03	18.44
	12H	4.10	4.97	4.53	5.35	5.78	16.74	17.62	17.18	18.00	18.43
4H	2H	2.63	3.68	3.03	4.03	4.42	16.20	17.25	16.60	17.60	17.98
	3H	4.22	5.07	4.63	5.48	5.88	16.62	17.48	17.03	17.88	18.28
	4H	5.51	6.28	5.94	6.70	7.14	16.62	17.38	17.05	17.80	18.25
	6H	6.64	7.30	7.10	7.75	8.21	16.66	17.32	17.12	17.77	18.23
	8H	7.14	7.76	7.61	8.21	8.68	16.68	17.30	17.15	17.75	18.22
	12H	7.69	8.24	8.18	8.72	9.20	16.75	17.29	17.24	17.78	18.25
8H	4H	6.60	7.21	7.07	7.66	8.13	16.53	17.14	17.00	17.59	18.06
	6H	8.14	8.64	8.64	9.14	9.62	16.60	17.11	17.11	17.61	18.09
	8H	8.94	9.40	9.47	9.91	10.41	16.69	17.14	17.21	17.66	18.15
	12H	9.77	10.18	10.29	10.67	11.24	16.86	17.26	17.37	17.76	18.33
12H	4H	6.79	7.33	7.27	7.81	8.29	16.49	17.03	16.98	17.52	17.99
	6H	8.49	8.95	9.02	9.47	9.96	16.58	17.03	17.10	17.55	18.04
	8H	9.50	9.90	10.02	10.40	10.97	16.72	17.12	17.23	17.61	18.18