

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: P1060621

Luminaire Tested: S124RDRP-S795D950-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-37)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S795D950-X4F0-XX-UDD-WVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

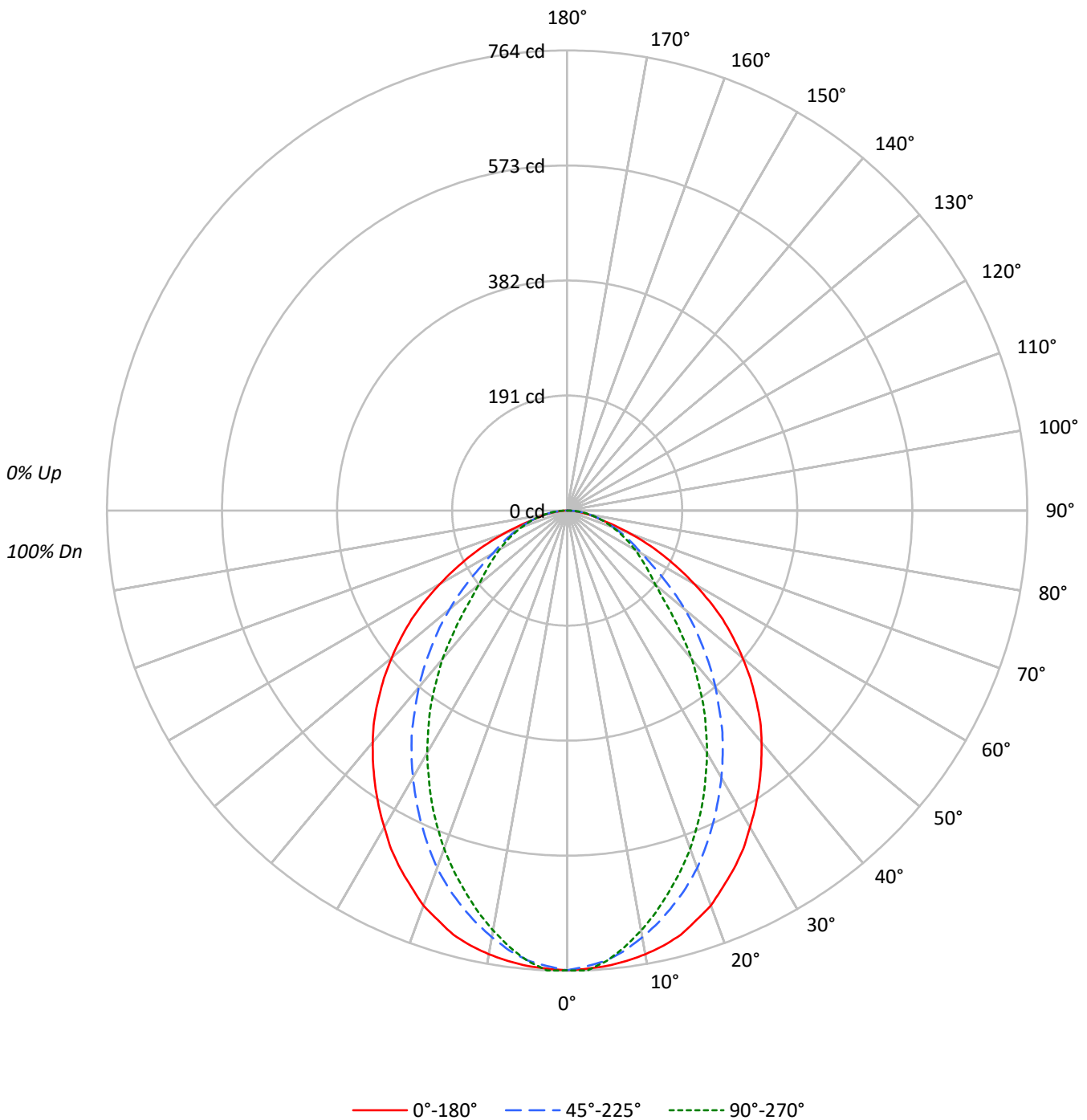
Lumens per Lamp: N/A
Luminaire Lumens: 1471.7 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.96 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (A_{in}): 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

TEST NUMBER: P1060621

CATALOG NUMBER: S124RDRP-S795D950-X4F0-XX-UDD-WVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1060621

CATALOG NUMBER: S124RDRP-S795D950-X4F0-XX-UDD-WVL-B

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	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	107	104	100	97	99	97	94	96	93	91	92	90	88	86													86															
2	101	94	88	83	99	92	86	82	89	84	80	85	82	78	82	79	76	74													74															
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64													64															
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56													56															
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50													50															
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44													44															
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40													40															
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36													36															
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33													33															
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30													30															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6573	6573	6573
5°	6559	6481	6489
10°	6540	6290	6188
15°	6501	6053	5837
20°	6394	5786	5474
25°	6229	5445	5062
30°	6038	5092	4620
35°	5846	4724	4148
40°	5646	4305	3620
45°	5396	3867	3025
50°	5095	3412	2559
55°	4740	2895	2371
60°	4202	2456	2241
65°	3582	2266	2119
70°	2800	2100	2009
75°	1910	1940	1940
80°	1646	1825	1870
85°	1423	1769	1946

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5396 cd/sqm

TEST NUMBER: P1060621

CATALOG NUMBER: S124RDRP-S795D950-X4F0-XX-UDD-WVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	4.8
10°-20°	192.8	13.1
20°-30°	267.7	18.2
30°-40°	287.0	19.5
40°-50°	254.3	17.3
50°-60°	191.6	13.0
60°-70°	124.1	8.4
70°-80°	63.7	4.3
80°-90°	19.5	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°	531.6	36.1
0°-40°	818.6	55.6
0°-60°	1264.5	85.9
0°-90°	1471.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1471.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	763	763	763	763	763	
5°	759	760	750	751	751	72
15°	729	713	679	662	655	205
25°	656	621	573	543	533	302
35°	556	506	449	409	395	348
45°	443	386	318	268	248	342
55°	316	263	193	162	158	280
65°	176	142	111	105	104	174
75°	57	60	58	58	58	68
85°	14	15	18	20	20	16
90°	0	0	0	0	0	

TEST NUMBER: P1060621

CATALOG NUMBER: S124RDRP-S795D950-X4F0-XX-UDD-WVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	763.3	763.3	763.3	763.3	763.3
2.5°	761.5	764.2	757.0	762.4	764.2
5°	758.8	759.7	749.8	750.7	750.7
7.5°	754.3	752.5	736.4	731.9	731.0
10°	748.0	742.6	719.3	710.4	707.7
12.5°	739.9	730.1	700.5	687.9	682.5
15°	729.2	713.0	679.0	661.9	654.7
17.5°	713.0	692.4	656.5	635.0	626.9
20°	697.8	670.0	631.4	604.5	597.3
22.5°	676.3	646.7	602.7	574.0	565.1
25°	655.6	620.7	573.1	542.6	532.8
27.5°	633.2	593.8	542.6	510.3	497.8
30°	607.2	565.1	512.1	478.1	464.6
32.5°	582.1	537.2	480.7	443.1	428.7
35°	556.1	505.9	449.4	409.0	394.6
37.5°	529.2	476.3	414.4	374.9	356.1
40°	502.3	446.7	383.0	338.1	322.0
42.5°	474.5	416.2	350.7	304.1	283.4
45°	443.1	385.7	317.5	268.2	248.4
47.5°	412.6	356.1	287.0	233.2	215.3
50°	380.3	324.7	254.7	202.7	191.0
52.5°	348.0	292.4	223.3	179.4	174.0
55°	315.7	262.8	192.8	162.3	157.9
57.5°	279.8	232.3	165.9	147.1	143.5
60°	244.0	199.1	142.6	132.7	130.1
62.5°	209.0	170.4	126.5	118.4	116.6
65°	175.8	141.7	111.2	104.9	104.0
67.5°	143.5	116.6	96.9	93.3	91.5
70°	111.2	93.3	83.4	81.6	79.8
72.5°	82.5	75.3	70.9	70.0	69.1
75°	57.4	60.1	58.3	58.3	58.3
77.5°	45.7	46.6	47.5	48.4	47.5
80°	33.2	35.9	36.8	38.6	37.7
82.5°	23.3	25.1	27.8	28.7	29.6
85°	14.4	15.2	17.9	19.7	19.7
87.5°	6.3	7.2	9.0	10.8	11.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1060621

CATALOG NUMBER: S124RDRP-S795D950-X4F0-XX-UDD-WVL-B

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	16.98	18.48	17.35	18.79	19.11	13.55	15.04	13.91	15.36	15.67
	3H	18.19	19.53	18.56	19.86	20.22	15.24	16.58	15.62	16.91	17.27
	4H	18.49	19.75	18.89	20.10	20.48	15.92	17.18	16.32	17.53	17.91
	6H	18.70	19.86	19.11	20.23	20.62	16.47	17.63	16.88	18.00	18.39
	8H	18.75	19.86	19.18	20.25	20.65	16.69	17.79	17.11	18.18	18.58
	12H	18.79	19.85	19.22	20.23	20.66	16.86	17.92	17.29	18.30	18.73
4H	2H	17.12	18.38	17.52	18.73	19.11	14.21	15.46	14.61	15.81	16.19
	3H	18.52	19.57	18.94	19.97	20.37	16.12	17.16	16.53	17.56	17.96
	4H	18.95	19.89	19.38	20.31	20.75	16.92	17.86	17.35	18.27	18.71
	6H	19.28	20.09	19.73	20.54	21.00	17.61	18.42	18.06	18.87	19.33
	8H	19.37	20.14	19.84	20.58	21.05	17.88	18.64	18.34	19.09	19.56
	12H	19.44	20.13	19.93	20.61	21.08	18.11	18.79	18.59	19.27	19.74
8H	4H	19.08	19.84	19.54	20.29	20.75	17.23	18.00	17.70	18.44	18.91
	6H	19.50	20.13	20.00	20.62	21.10	18.06	18.69	18.56	19.19	19.66
	8H	19.66	20.22	20.17	20.73	21.22	18.43	19.00	18.94	19.51	19.99
	12H	19.78	20.29	20.30	20.78	21.34	18.76	19.26	19.27	19.76	20.32
12H	4H	19.08	19.77	19.57	20.25	20.72	17.26	17.95	17.75	18.42	18.90
	6H	19.52	20.09	20.04	20.60	21.09	18.12	18.69	18.64	19.20	19.69
	8H	19.73	20.23	20.24	20.73	21.29	18.55	19.06	19.06	19.55	20.11