

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: P1060620

Luminaire Tested: S124RDRP-S795D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-74)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S795D950-X4F0-XX-UDD-SVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

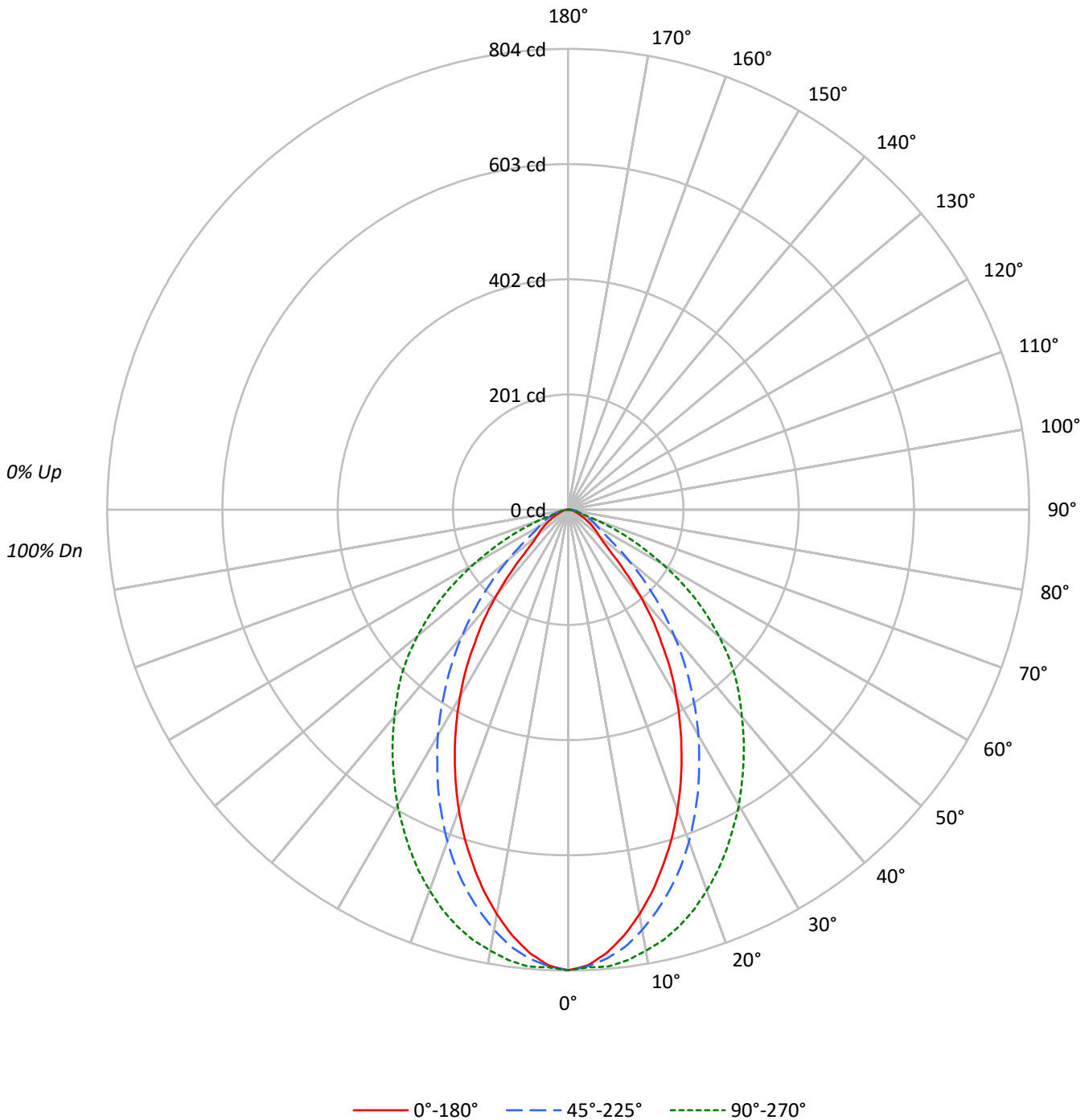
Lumens per Lamp: N/A
Luminaire Lumens: 1137.4 lumens
Efficiency: N/A
Efficacy: 44.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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

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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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6920	6920	6920
5°	6706	6791	6915
10°	6265	6508	6830
15°	5715	6116	6700
20°	5110	5644	6475
25°	4445	5101	6210
30°	3750	4517	5919
35°	2982	3888	5606
40°	2170	3240	5299
45°	1312	2559	5019
50°	938	1853	4595
55°	796	1254	4058
60°	649	1021	3277
65°	511	915	2360
70°	431	768	1244
75°	389	715	629
80°	402	714	625
85°	534	1067	711

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5019 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	6.5
10°-20°	193.9	17.0
20°-30°	251.4	22.1
30°-40°	242.0	21.3
40°-50°	180.1	15.8
50°-60°	110.7	9.7
60°-70°	54.4	4.8
70°-80°	21.2	1.9
80°-90°	9.7	0.9
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°	519.3	45.7
0°-40°	761.3	66.9
0°-60°	1052.1	92.5
0°-90°	1137.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1137.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	776	787	786	793	800	72
15°	641	662	686	727	752	179
25°	468	493	537	604	654	214
35°	284	311	370	462	533	177
45°	108	134	210	324	412	89
55°	53	55	84	190	270	48
65°	25	27	45	72	116	26
75°	12	21	22	20	19	13
85°	5	10	11	11	7	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	803.6	803.6	803.6	803.6	803.6
2.5°	795.5	804.5	797.3	798.2	799.1
5°	775.8	787.4	785.6	792.8	800.0
7.5°	748.8	762.3	768.6	782.9	792.8
10°	716.5	731.8	744.3	767.7	781.1
12.5°	680.6	698.5	716.5	747.9	768.6
15°	641.1	661.7	686.0	727.3	751.5
17.5°	600.7	621.3	652.8	700.3	730.9
20°	557.6	580.0	615.9	668.9	706.6
22.5°	512.7	536.9	576.4	636.6	681.5
25°	467.8	492.9	536.9	604.3	653.6
27.5°	422.9	447.1	494.7	570.1	624.0
30°	377.1	402.2	454.3	533.3	595.3
32.5°	333.1	356.5	412.1	498.3	563.9
35°	283.7	310.7	369.9	462.4	533.3
37.5°	241.5	265.8	329.5	426.5	502.8
40°	193.0	220.0	288.2	391.5	471.4
42.5°	148.1	175.1	248.7	356.5	441.8
45°	107.7	133.8	210.1	324.1	412.1
47.5°	81.7	97.0	172.4	292.7	378.9
50°	70.0	74.5	138.3	258.6	343.0
52.5°	62.0	63.7	107.7	224.5	307.1
55°	53.0	54.8	83.5	190.3	270.3
57.5°	44.9	45.8	67.3	158.0	230.8
60°	37.7	38.6	59.3	126.6	190.3
62.5°	31.4	32.3	53.0	97.9	151.7
65°	25.1	26.9	44.9	71.8	115.8
67.5°	20.7	24.2	37.7	50.3	80.8
70°	17.1	23.3	30.5	35.0	49.4
72.5°	14.4	21.5	26.0	25.1	24.2
75°	11.7	20.7	21.5	19.8	18.9
77.5°	9.9	18.0	18.0	16.2	15.3
80°	8.1	14.4	14.4	14.4	12.6
82.5°	7.2	11.7	12.6	12.6	9.9
85°	5.4	9.9	10.8	10.8	7.2
87.5°	3.6	9.0	9.9	9.0	5.4
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	6.51	7.85	6.87	8.16	8.48	15.67	17.02	16.04	17.33	17.64
	3H	7.62	8.81	8.00	9.14	9.50	16.18	17.37	16.56	17.70	18.06
	4H	8.14	9.25	8.54	9.60	9.98	16.20	17.31	16.60	17.66	18.04
	6H	8.57	9.59	8.99	9.96	10.36	16.21	17.23	16.63	17.60	18.00
	8H	8.76	9.73	9.19	10.12	10.53	16.21	17.18	16.64	17.57	17.98
	12H	8.95	9.87	9.38	10.25	10.68	16.22	17.14	16.65	17.53	17.96
4H	2H	7.65	8.76	8.05	9.11	9.50	15.57	16.68	15.97	17.03	17.41
	3H	8.99	9.90	9.40	10.30	10.71	16.15	17.06	16.57	17.47	17.87
	4H	9.73	10.54	10.16	10.96	11.40	16.21	17.03	16.65	17.45	17.89
	6H	10.34	11.04	10.80	11.49	11.95	16.29	16.99	16.75	17.44	17.90
	8H	10.58	11.24	11.05	11.69	12.16	16.32	16.98	16.79	17.42	17.89
	12H	10.82	11.40	11.31	11.88	12.36	16.36	16.94	16.85	17.42	17.90
8H	4H	10.19	10.85	10.66	11.30	11.77	16.17	16.83	16.64	17.27	17.75
	6H	11.05	11.59	11.55	12.08	12.56	16.30	16.84	16.80	17.33	17.81
	8H	11.46	11.94	11.98	12.45	12.95	16.38	16.87	16.90	17.38	17.87
	12H	11.88	12.31	12.39	12.80	13.37	16.51	16.93	17.02	17.43	18.00
12H	4H	10.25	10.83	10.73	11.31	11.79	16.14	16.73	16.63	17.21	17.68
	6H	11.18	11.66	11.70	12.18	12.67	16.28	16.77	16.80	17.28	17.77
	8H	11.70	12.13	12.22	12.63	13.20	16.42	16.84	16.93	17.34	17.91