

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: P1060547

Luminaire Tested: S124RDRP-S795D830-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-77)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S795D830-X4F0-XX-UDD-SVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

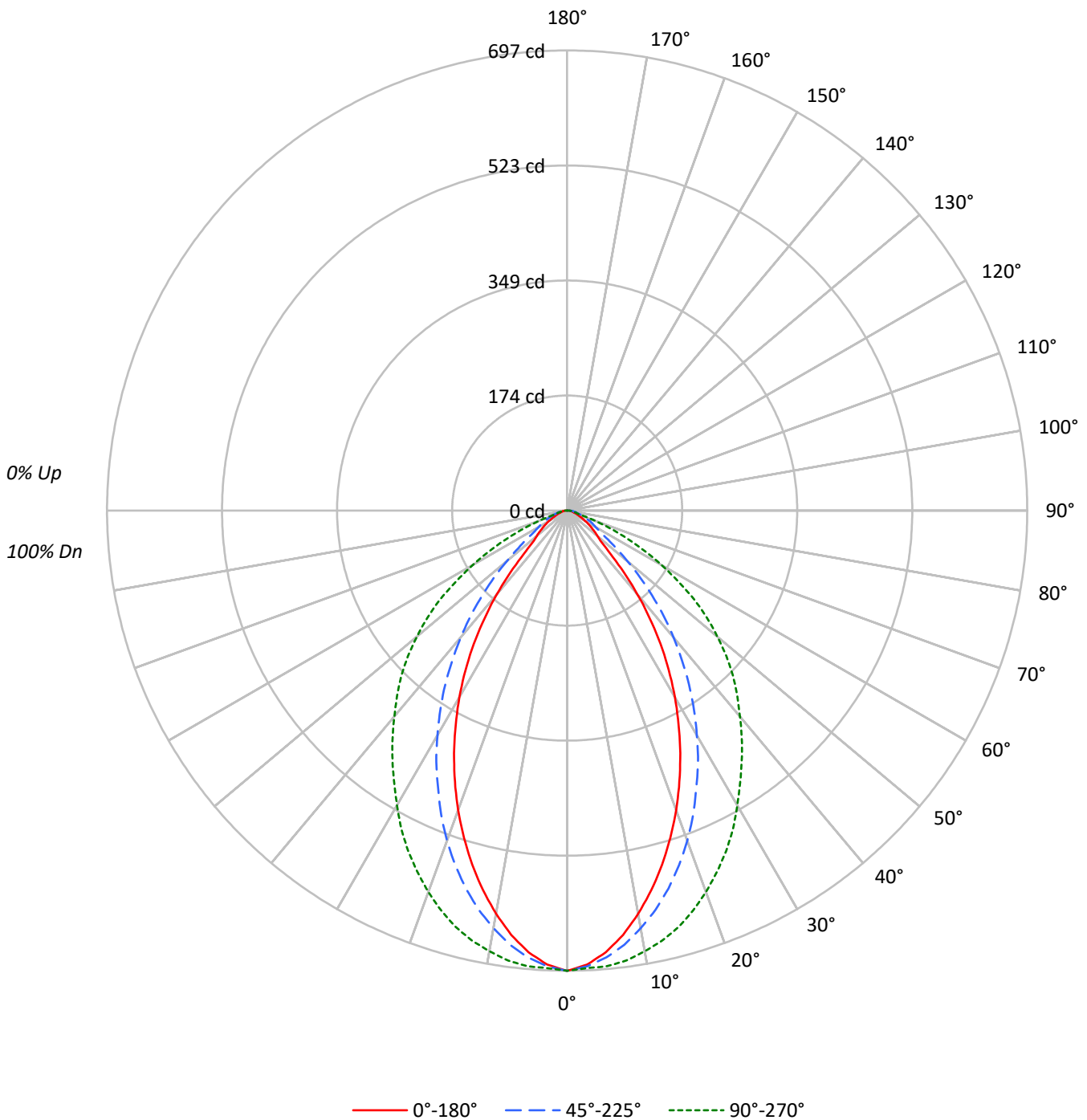
Lumens per Lamp: N/A
Luminaire Lumens: 980.3 lumens
Efficiency: N/A
Efficacy: 38.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63					63			
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57					57			
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47					47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6003	6003	6003
5°	5804	5873	5988
10°	5421	5615	5925
15°	4950	5282	5820
20°	4422	4877	5632
25°	3851	4399	5410
30°	3245	3907	5124
35°	2592	3385	4848
40°	1865	2811	4576
45°	1123	2214	4332
50°	808	1604	3980
55°	679	1078	3528
60°	549	856	2842
65°	434	776	2042
70°	380	647	1095
75°	353	589	532
80°	352	615	486
85°	524	879	613

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4332 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	6.5
10°-20°	167.7	17.1
20°-30°	217.6	22.2
30°-40°	209.1	21.3
40°-50°	155.2	15.8
50°-60°	95.0	9.7
60°-70°	46.2	4.7
70°-80°	17.6	1.8
80°-90°	7.9	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°	449.3	45.8
0°-40°	658.4	67.2
0°-60°	908.6	92.7
0°-90°	980.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	980.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	697	697	697	697	697	
5°	671	681	679	686	693	62
15°	555	571	592	628	653	155
25°	405	426	463	522	569	185
35°	247	269	322	398	461	153
45°	92	115	182	278	356	77
55°	45	47	72	162	235	41
65°	21	23	38	60	100	22
75°	11	17	18	16	16	11
85°	5	9	9	8	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	697.1	697.1	697.1	697.1	697.1
2.5°	688.3	696.2	690.9	692.7	693.6
5°	671.4	681.2	679.4	685.6	692.7
7.5°	648.3	659.9	663.4	675.8	687.4
10°	620.0	634.1	642.1	662.5	677.6
12.5°	588.9	604.0	619.1	646.6	667.0
15°	555.2	571.2	592.5	627.9	652.8
17.5°	519.7	537.5	563.2	605.8	635.0
20°	482.5	501.1	532.2	579.2	614.6
22.5°	444.3	463.9	498.4	550.8	592.5
25°	405.3	425.7	463.0	522.4	569.4
27.5°	365.4	386.7	429.3	492.2	543.7
30°	326.4	346.8	392.9	461.2	515.3
32.5°	286.5	307.8	357.4	429.3	487.8
35°	246.6	268.7	322.0	398.2	461.2
37.5°	205.8	229.7	285.6	368.1	434.6
40°	165.9	188.9	250.1	337.0	407.1
42.5°	126.8	151.7	216.4	306.0	381.4
45°	92.2	115.3	181.8	277.6	355.7
47.5°	69.2	83.4	149.9	251.0	327.3
50°	60.3	63.0	119.7	221.7	297.1
52.5°	52.3	54.1	93.1	189.8	267.0
55°	45.2	47.0	71.8	162.3	235.0
57.5°	38.1	39.9	57.6	135.7	198.7
60°	31.9	33.7	49.7	108.2	165.0
62.5°	26.6	27.5	44.3	82.5	132.2
65°	21.3	23.1	38.1	60.3	100.2
67.5°	17.7	19.5	31.0	41.7	70.1
70°	15.1	19.5	25.7	29.3	43.5
72.5°	12.4	17.7	21.3	20.4	20.4
75°	10.6	16.9	17.7	16.0	16.0
77.5°	8.9	15.1	14.2	13.3	12.4
80°	7.1	12.4	12.4	10.6	9.8
82.5°	6.2	9.8	9.8	9.8	8.0
85°	5.3	8.9	8.9	8.0	6.2
87.5°	3.5	7.1	8.0	7.1	4.4
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	6.04	7.38	6.40	7.69	8.00	15.14	16.48	15.51	16.79	17.11
	3H	7.08	8.27	7.46	8.60	8.96	15.64	16.83	16.02	17.16	17.52
	4H	7.60	8.70	8.00	9.05	9.44	15.66	16.76	16.06	17.11	17.50
	6H	8.05	9.07	8.46	9.44	9.83	15.65	16.67	16.07	17.04	17.44
	8H	8.24	9.20	8.67	9.59	10.00	15.65	16.62	16.08	17.01	17.41
	12H	8.45	9.37	8.88	9.76	10.19	15.65	16.57	16.08	16.96	17.39
4H	2H	7.13	8.24	7.53	8.59	8.97	15.03	16.14	15.43	16.49	16.87
	3H	8.40	9.31	8.81	9.71	10.11	15.61	16.51	16.02	16.92	17.32
	4H	9.11	9.92	9.54	10.34	10.78	15.65	16.46	16.09	16.88	17.33
	6H	9.74	10.44	10.20	10.89	11.35	15.71	16.41	16.17	16.85	17.32
	8H	9.99	10.64	10.45	11.09	11.56	15.72	16.38	16.19	16.82	17.30
	12H	10.26	10.84	10.75	11.32	11.80	15.76	16.34	16.24	16.82	17.29
8H	4H	9.54	10.19	10.00	10.64	11.11	15.60	16.26	16.07	16.70	17.17
	6H	10.41	10.95	10.92	11.44	11.93	15.70	16.23	16.20	16.73	17.21
	8H	10.82	11.30	11.34	11.82	12.31	15.76	16.24	16.28	16.75	17.25
	12H	11.30	11.73	11.82	12.22	12.79	15.86	16.28	16.37	16.78	17.35
12H	4H	9.58	10.16	10.06	10.64	11.11	15.58	16.15	16.06	16.64	17.11
	6H	10.53	11.01	11.05	11.52	12.01	15.68	16.16	16.20	16.67	17.16
	8H	11.05	11.47	11.56	11.97	12.54	15.78	16.21	16.30	16.70	17.27