

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: P1060618

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-38)
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-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

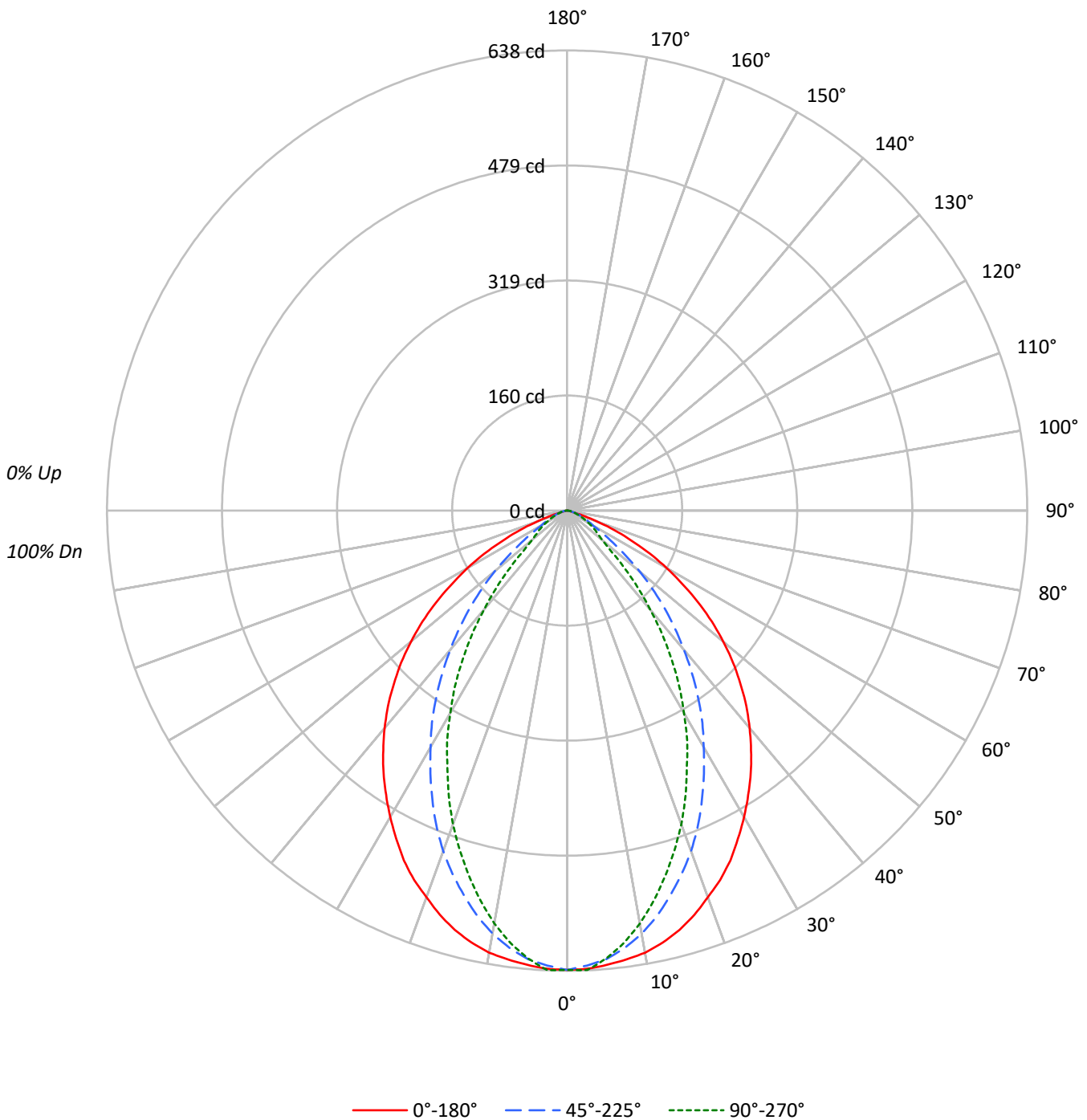
Lumens per Lamp: N/A
Luminaire Lumens: 938.9 lumens
Efficiency: N/A
Efficacy: 36.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	60	71	65	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	48	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5484	5484	5484
5°	5466	5396	5388
10°	5442	5207	5082
15°	5365	4925	4678
20°	5227	4603	4241
25°	5087	4201	3732
30°	4878	3764	3220
35°	4667	3328	2659
40°	4426	2833	2017
45°	4139	2315	1354
50°	3785	1754	841
55°	3325	1158	713
60°	2749	711	587
65°	1993	548	475
70°	1085	405	363
75°	240	299	329
80°	179	223	268
85°	178	178	267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4139 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	6.3
10°-20°	156.7	16.7
20°-30°	207.6	22.1
30°-40°	206.0	21.9
40°-50°	158.5	16.9
50°-60°	94.5	10.1
60°-70°	42.9	4.6
70°-80°	11.1	1.2
80°-90°	2.5	0.3
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°	423.3	45.1
0°-40°	629.3	67.0
0°-60°	882.3	94.0
0°-90°	938.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	938.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	632	633	624	624	623	60
15°	602	587	552	534	525	169
25°	535	497	442	405	393	246
35°	444	388	317	268	253	277
45°	340	274	190	133	111	262
55°	222	158	77	48	48	197
65°	98	58	27	23	23	98
75°	7	9	9	10	10	15
85°	2	2	2	3	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	636.8	636.8	636.8	636.8	636.8
2.5°	635.9	636.8	631.4	635.9	637.7
5°	632.3	633.2	624.2	624.2	623.3
7.5°	627.8	626.0	611.7	606.3	604.5
10°	622.4	616.2	595.5	584.8	581.2
12.5°	613.5	603.6	575.8	560.6	554.3
15°	601.8	586.6	552.5	533.7	524.7
17.5°	587.5	568.6	528.3	504.1	494.2
20°	570.4	545.3	502.3	471.8	462.8
22.5°	554.3	522.9	473.6	438.6	428.7
25°	535.4	496.9	442.2	405.4	392.8
27.5°	513.0	471.8	410.8	373.1	360.6
30°	490.6	444.9	378.5	339.0	323.8
32.5°	467.3	417.1	348.9	304.0	289.7
35°	444.0	388.4	316.6	268.2	252.9
37.5°	418.9	359.7	284.3	234.1	217.0
40°	393.7	331.9	252.0	200.9	179.4
42.5°	367.7	303.2	220.6	166.8	145.3
45°	339.9	273.6	190.1	132.7	111.2
47.5°	312.1	245.8	159.6	99.6	79.8
50°	282.5	216.2	130.9	72.6	62.8
52.5°	252.9	187.5	102.2	56.5	53.8
55°	221.5	157.9	77.1	48.4	47.5
57.5°	189.2	130.9	55.6	42.2	40.4
60°	159.6	105.8	41.3	35.9	34.1
62.5°	129.2	79.8	34.1	29.6	27.8
65°	97.8	58.3	26.9	23.3	23.3
67.5°	70.9	39.5	21.5	18.8	17.9
70°	43.1	24.2	16.1	15.2	14.4
72.5°	21.5	14.4	12.6	11.7	11.7
75°	7.2	9.0	9.0	9.9	9.9
77.5°	5.4	6.3	6.3	7.2	7.2
80°	3.6	4.5	4.5	5.4	5.4
82.5°	2.7	2.7	3.6	3.6	4.5
85°	1.8	1.8	1.8	2.7	2.7
87.5°	0.9	0.9	0.9	1.8	1.8
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	15.03	16.36	15.39	16.68	16.99	6.59	7.92	6.95	8.24	8.55
	3H	15.54	16.72	15.92	17.05	17.41	7.40	8.58	7.78	8.91	9.28
	4H	15.51	16.60	15.91	16.95	17.34	7.69	8.78	8.09	9.13	9.52
	6H	15.44	16.45	15.86	16.82	17.21	7.86	8.87	8.27	9.24	9.63
	8H	15.40	16.36	15.83	16.75	17.15	7.92	8.88	8.35	9.27	9.67
	12H	15.36	16.28	15.80	16.66	17.09	7.97	8.88	8.40	9.26	9.69
4H	2H	14.87	15.97	15.27	16.32	16.70	7.03	8.13	7.43	8.48	8.86
	3H	15.43	16.32	15.84	16.72	17.13	7.99	8.88	8.40	9.29	9.69
	4H	15.39	16.19	15.83	16.61	17.05	8.35	9.15	8.79	9.57	10.01
	6H	15.34	16.03	15.81	16.47	16.94	8.61	9.29	9.07	9.74	10.21
	8H	15.30	15.94	15.77	16.38	16.85	8.70	9.34	9.17	9.78	10.25
	12H	15.26	15.82	15.74	16.31	16.78	8.77	9.34	9.26	9.82	10.30
8H	4H	15.29	15.92	15.75	16.37	16.84	8.44	9.08	8.91	9.53	10.00
	6H	15.22	15.75	15.73	16.24	16.72	8.76	9.28	9.26	9.78	10.26
	8H	15.18	15.65	15.70	16.16	16.65	8.89	9.36	9.41	9.87	10.37
	12H	15.15	15.56	15.66	16.05	16.63	9.03	9.44	9.54	9.93	10.51
12H	4H	15.24	15.81	15.73	16.29	16.76	8.42	8.98	8.90	9.47	9.94
	6H	15.17	15.64	15.69	16.15	16.64	8.74	9.21	9.26	9.72	10.21
	8H	15.14	15.56	15.66	16.05	16.62	8.91	9.32	9.42	9.82	10.39