

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: P1060375

Luminaire Tested: S124RDRP-S1195D950-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060375
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-S1195D950-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

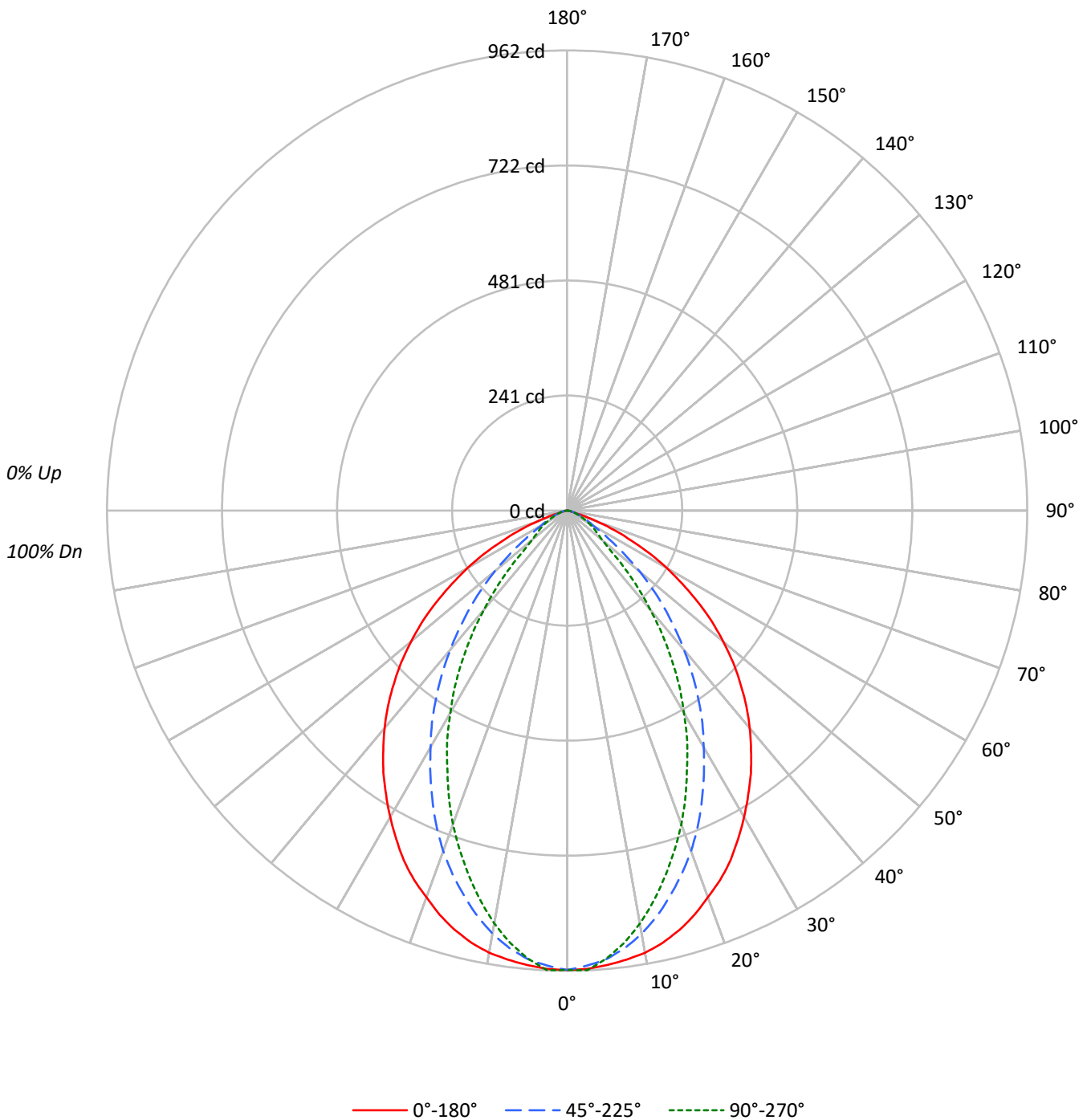
Lumens per Lamp: N/A
Luminaire Lumens: 1416.0 lumens
Efficiency: N/A
Efficacy: 33.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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°	8270	8270	8270
5°	8243	8138	8126
10°	8208	7854	7664
15°	8091	7428	7054
20°	7884	6942	6396
25°	7672	6336	5630
30°	7357	5676	4855
35°	7039	5020	4010
40°	6675	4273	3041
45°	6244	3493	2042
50°	5708	2646	1269
55°	5016	1746	1076
60°	4147	1071	885
65°	3003	827	717
70°	1634	612	544
75°	359	449	496
80°	268	337	402
85°	267	267	405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6244 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	6.3
10°-20°	236.3	16.7
20°-30°	313.1	22.1
30°-40°	310.7	21.9
40°-50°	239.1	16.9
50°-60°	142.5	10.1
60°-70°	64.8	4.6
70°-80°	16.8	1.2
80°-90°	3.7	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°	638.4	45.1
0°-40°	949.1	67.0
0°-60°	1330.7	94.0
0°-90°	1416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	954	955	942	942	940	91
15°	908	885	833	805	791	255
25°	808	749	667	611	592	371
35°	670	586	478	404	382	418
45°	513	413	287	200	168	395
55°	334	238	116	73	72	298
65°	147	88	41	35	35	148
75°	11	14	14	15	15	23
85°	3	3	3	4	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.4	960.4	960.4	960.4	960.4
2.5°	959.0	960.4	952.3	959.0	961.7
5°	953.6	955.0	941.5	941.5	940.1
7.5°	946.9	944.2	922.5	914.4	911.7
10°	938.7	929.3	898.2	881.9	876.5
12.5°	925.2	910.3	868.4	845.4	835.9
15°	907.6	884.6	833.2	804.8	791.3
17.5°	886.0	857.6	796.7	760.2	745.3
20°	860.3	822.4	757.5	711.5	698.0
22.5°	835.9	788.6	714.2	661.5	646.6
25°	807.5	749.4	666.9	611.4	592.5
27.5°	773.7	711.5	619.5	562.7	543.8
30°	739.9	670.9	570.8	511.3	488.3
32.5°	704.7	629.0	526.2	458.6	436.9
35°	669.6	585.7	477.5	404.4	381.5
37.5°	631.7	542.4	428.8	353.0	327.3
40°	593.8	500.5	380.1	303.0	270.5
42.5°	554.6	457.2	332.8	251.6	219.1
45°	512.7	412.6	286.8	200.2	167.7
47.5°	470.7	370.6	240.8	150.1	120.4
50°	426.1	326.0	197.5	109.6	94.7
52.5°	381.5	282.7	154.2	85.2	81.2
55°	334.1	238.1	116.3	73.0	71.7
57.5°	285.4	197.5	83.9	63.6	60.9
60°	240.8	159.6	62.2	54.1	51.4
62.5°	194.8	120.4	51.4	44.6	41.9
65°	147.4	87.9	40.6	35.2	35.2
67.5°	106.9	59.5	32.5	28.4	27.1
70°	64.9	36.5	24.3	23.0	21.6
72.5°	32.5	21.6	18.9	17.6	17.6
75°	10.8	13.5	13.5	14.9	14.9
77.5°	8.1	9.5	9.5	10.8	10.8
80°	5.4	6.8	6.8	8.1	8.1
82.5°	4.1	4.1	5.4	5.4	6.8
85°	2.7	2.7	2.7	4.1	4.1
87.5°	1.4	1.4	1.4	2.7	2.7
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	16.46	17.79	16.82	18.11	18.42	8.01	9.35	8.38	9.66	9.97
	3H	16.97	18.15	17.35	18.48	18.84	8.83	10.01	9.21	10.34	10.70
	4H	16.93	18.03	17.34	18.38	18.77	9.11	10.21	9.51	10.56	10.94
	6H	16.87	17.88	17.28	18.25	18.64	9.28	10.29	9.70	10.66	11.05
	8H	16.83	17.79	17.26	18.18	18.58	9.35	10.30	9.78	10.69	11.10
	12H	16.79	17.70	17.23	18.09	18.52	9.39	10.30	9.82	10.69	11.12
4H	2H	16.30	17.40	16.70	17.75	18.13	8.45	9.55	8.85	9.90	10.28
	3H	16.86	17.75	17.27	18.15	18.56	9.42	10.31	9.83	10.71	11.12
	4H	16.82	17.62	17.26	18.04	18.48	9.78	10.58	10.22	11.00	11.44
	6H	16.77	17.46	17.23	17.90	18.37	10.03	10.72	10.49	11.16	11.63
	8H	16.72	17.36	17.19	17.81	18.28	10.12	10.76	10.59	11.21	11.68
	12H	16.69	17.25	17.17	17.73	18.21	10.20	10.76	10.68	11.24	11.72
8H	4H	16.71	17.35	17.18	17.80	18.27	9.87	10.51	10.34	10.95	11.43
	6H	16.65	17.17	17.15	17.67	18.15	10.18	10.70	10.68	11.20	11.68
	8H	16.60	17.07	17.13	17.59	18.08	10.31	10.78	10.83	11.29	11.79
	12H	16.57	16.99	17.09	17.48	18.05	10.45	10.86	10.96	11.36	11.93
12H	4H	16.67	17.24	17.16	17.72	18.19	9.84	10.41	10.33	10.89	11.36
	6H	16.60	17.07	17.12	17.58	18.07	10.16	10.63	10.68	11.14	11.63
	8H	16.57	16.98	17.09	17.48	18.05	10.33	10.74	10.84	11.24	11.81