

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: P1060777

Luminaire Tested: S124RDRP-H1195D950-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-39)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-H1195D950-X4F0-XX-UDD-BVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

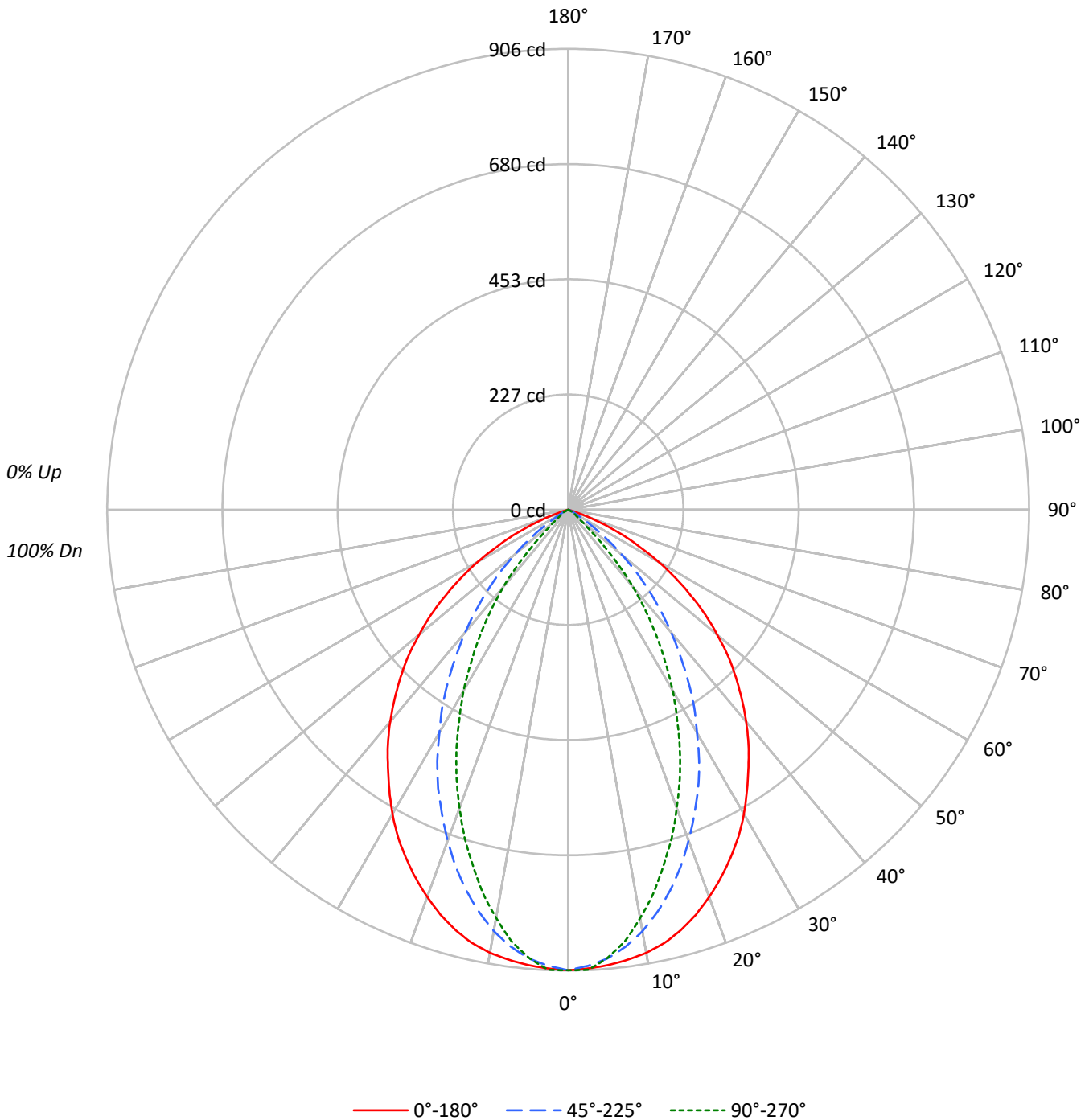
Lumens per Lamp: N/A
Luminaire Lumens: 1182.3 lumens
Efficiency: N/A
Efficacy: 32.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.83 / 0.98
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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: P1060777

CATALOG NUMBER: S124RDRP-H1195D950-X4F0-XX-UDD-BVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1060777

CATALOG NUMBER: S124RDRP-H1195D950-X4F0-XX-UDD-BVL-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	69	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	52	46	41	63	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7797	7797	7797
5°	7770	7657	7646
10°	7734	7357	7128
15°	7628	6905	6451
20°	7423	6343	5719
25°	7174	5744	4936
30°	6870	5035	4086
35°	6492	4319	3178
40°	6118	3544	2221
45°	5673	2725	1100
50°	5119	1841	368
55°	4420	943	255
60°	3537	338	181
65°	2427	187	79
70°	1088	98	65
75°	0	43	43
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5673 cd/sqm



TEST NUMBER: P1060777

CATALOG NUMBER: S124RDRP-H1195D950-X4F0-XX-UDD-BVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	7.1
10°-20°	219.2	18.5
20°-30°	283.8	24.0
30°-40°	269.6	22.8
40°-50°	190.9	16.1
50°-60°	98.0	8.3
60°-70°	34.3	2.9
70°-80°	3.0	0.3
80°-90°	0.0	0.0
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°	586.6	49.6
0°-40°	856.2	72.4
0°-60°	1145.1	96.9
0°-90°	1182.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1182.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	906	906	906	906	906	
5°	899	900	886	886	884	85
15°	856	830	775	738	724	241
25°	755	696	604	540	520	347
35°	618	527	411	331	302	386
45°	466	358	224	128	90	359
55°	294	194	63	18	17	263
65°	119	58	9	5	4	118
75°	0	1	1	1	1	10
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1060777

CATALOG NUMBER: S124RDRP-H1195D950-X4F0-XX-UDD-BVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.5	905.5	905.5	905.5	905.5
2.5°	902.9	905.5	897.6	904.2	905.5
5°	898.9	900.2	885.8	885.8	884.5
7.5°	892.4	889.8	866.2	857.1	855.7
10°	884.5	875.4	841.4	821.7	815.2
12.5°	872.8	855.7	810.0	781.2	773.3
15°	855.7	829.6	774.6	738.0	723.6
17.5°	834.8	800.8	735.4	690.9	676.5
20°	810.0	766.8	692.2	642.5	624.1
22.5°	783.8	734.1	647.7	591.4	573.1
25°	755.0	696.1	604.5	540.4	519.5
27.5°	724.9	655.6	557.4	490.7	463.2
30°	690.9	615.0	506.4	437.0	410.9
32.5°	654.2	570.5	460.6	386.0	354.6
35°	617.6	527.3	410.9	331.0	302.3
37.5°	582.3	486.8	361.1	277.4	249.9
40°	544.3	442.3	315.3	229.0	197.6
42.5°	505.1	399.1	268.2	179.3	145.2
45°	465.8	358.5	223.8	128.2	90.3
47.5°	426.6	315.3	180.6	81.1	48.4
50°	382.1	273.5	137.4	43.2	27.5
52.5°	340.2	234.2	98.1	24.9	20.9
55°	294.4	193.7	62.8	18.3	17.0
57.5°	251.2	154.4	35.3	14.4	13.1
60°	205.4	119.1	19.6	11.8	10.5
62.5°	159.6	86.4	13.1	7.9	6.5
65°	119.1	57.6	9.2	5.2	3.9
67.5°	78.5	32.7	6.5	2.6	2.6
70°	43.2	15.7	3.9	2.6	2.6
72.5°	15.7	5.2	2.6	1.3	1.3
75°	0.0	1.3	1.3	1.3	1.3
77.5°	0.0	0.0	0.0	0.0	1.3
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1060777

CATALOG NUMBER: S124RDRP-H1195D950-X4F0-XX-UDD-BVL-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	15.66	16.92	16.03	17.23	17.55	0.00	0.00	0.00	0.00	0.22
	3H	15.94	17.05	16.32	17.38	17.74	0.00	0.00	0.00	0.00	0.21
	4H	15.86	16.89	16.27	17.24	17.63	0.00	0.00	0.00	0.00	0.15
	6H	15.78	16.72	16.19	17.09	17.48	0.00	0.00	0.00	0.00	0.04
	8H	15.73	16.62	16.16	17.01	17.42	0.00	0.00	0.00	0.00	0.00
	12H	15.69	16.53	16.12	16.92	17.35	0.00	0.00	0.00	0.00	0.00
4H	2H	15.44	16.46	15.84	16.81	17.20	0.00	0.00	0.00	0.18	0.56
	3H	15.72	16.55	16.13	16.95	17.36	0.00	0.00	0.00	0.17	0.57
	4H	15.63	16.36	16.06	16.78	17.23	0.00	0.00	0.00	0.07	0.52
	6H	15.54	16.17	16.01	16.62	17.09	0.00	0.00	0.00	0.00	0.40
	8H	15.48	16.07	15.95	16.52	16.99	0.00	0.00	0.00	0.00	0.30
	12H	15.43	15.94	15.92	16.43	16.90	0.00	0.00	0.00	0.00	0.22
8H	4H	15.48	16.07	15.95	16.52	16.99	0.00	0.00	0.00	0.01	0.48
	6H	15.37	15.85	15.88	16.35	16.83	0.00	0.00	0.00	0.00	0.35
	8H	15.30	15.73	15.83	16.25	16.74	0.00	0.00	0.00	0.00	0.26
	12H	15.25	15.63	15.77	16.13	16.70	0.00	0.00	0.00	0.00	0.22
12H	4H	15.43	15.94	15.92	16.43	16.90	0.00	0.00	0.00	0.00	0.40
	6H	15.30	15.73	15.83	16.25	16.74	0.00	0.00	0.00	0.00	0.26
	8H	15.25	15.63	15.77	16.13	16.70	0.00	0.00	0.00	0.00	0.22

END OF REPORT