

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1060745

Luminaire Tested: S124RDR-H1195D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060745
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: S124RDR-H1195D927-X4F0-XX-UDD-SVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

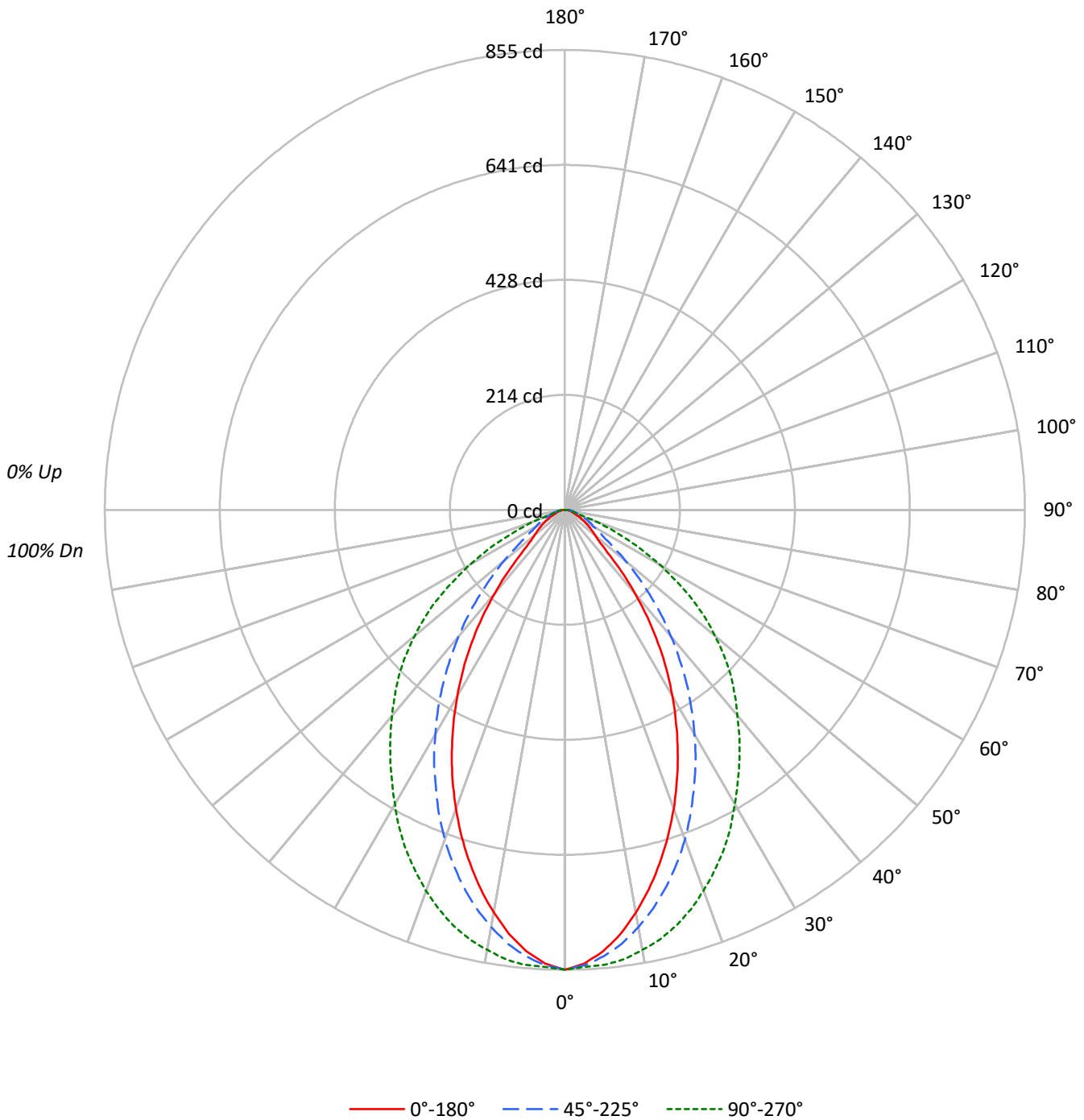
Lumens per Lamp: N/A
Luminaire Lumens: 1201.9 lumens
Efficiency: N/A
Efficacy: 32.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (Ain): 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										
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	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°	7361	7361	7361
5°	7116	7200	7341
10°	6647	6884	7264
15°	6069	6476	7135
20°	5421	5979	6906
25°	4722	5394	6634
30°	3979	4791	6282
35°	3178	4150	5945
40°	2286	3448	5612
45°	1377	2714	5311
50°	990	1967	4880
55°	833	1323	4327
60°	673	1049	3484
65°	532	954	2504
70°	466	793	1342
75°	433	722	652
80°	431	754	595
85°	642	1077	751

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5311 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	6.5
10°-20°	205.6	17.1
20°-30°	266.8	22.2
30°-40°	256.4	21.3
40°-50°	190.3	15.8
50°-60°	116.5	9.7
60°-70°	56.6	4.7
70°-80°	21.6	1.8
80°-90°	9.7	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°	550.8	45.8
0°-40°	807.3	67.2
0°-60°	1114.1	92.7
0°-90°	1201.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1201.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	823	835	833	841	849	77
15°	681	700	726	770	800	190
25°	497	522	568	640	698	227
35°	302	330	395	488	566	187
45°	113	141	223	340	436	94
55°	56	58	88	199	288	50
65°	26	28	47	74	123	27
75°	13	21	22	20	20	14
85°	6	11	11	10	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	854.8	854.8	854.8	854.8	854.8
2.5°	843.9	853.7	847.2	849.3	850.4
5°	823.2	835.2	833.0	840.6	849.3
7.5°	795.0	809.1	813.4	828.7	842.8
10°	760.2	777.6	787.3	812.4	830.8
12.5°	722.1	740.6	759.1	792.8	817.8
15°	680.8	700.3	726.4	769.9	800.4
17.5°	637.3	659.0	690.6	742.8	778.6
20°	591.6	614.4	652.5	710.1	753.6
22.5°	544.8	568.8	611.2	675.3	726.4
25°	497.0	522.0	567.7	640.5	698.2
27.5°	448.0	474.1	526.3	603.6	666.6
30°	400.2	425.2	481.8	565.5	631.8
32.5°	351.3	377.4	438.3	526.3	598.1
35°	302.3	329.5	394.8	488.3	565.5
37.5°	252.3	281.7	350.2	451.3	532.9
40°	203.4	231.6	306.7	413.2	499.2
42.5°	155.5	186.0	265.3	375.2	467.6
45°	113.1	141.4	222.9	340.4	436.1
47.5°	84.8	102.2	183.8	307.8	401.3
50°	73.9	77.2	146.8	271.9	364.3
52.5°	64.2	66.3	114.2	232.7	327.3
55°	55.5	57.6	88.1	199.0	288.2
57.5°	46.8	48.9	70.7	166.4	243.6
60°	39.1	41.3	60.9	132.7	202.3
62.5°	32.6	33.7	54.4	101.1	162.0
65°	26.1	28.3	46.8	73.9	122.9
67.5°	21.7	23.9	38.1	51.1	85.9
70°	18.5	23.9	31.5	35.9	53.3
72.5°	15.2	21.7	26.1	25.0	25.0
75°	13.0	20.7	21.7	19.6	19.6
77.5°	10.9	18.5	17.4	16.3	15.2
80°	8.7	15.2	15.2	13.0	12.0
82.5°	7.6	12.0	12.0	12.0	9.8
85°	6.5	10.9	10.9	9.8	7.6
87.5°	4.3	8.7	9.8	8.7	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	6.74	8.08	7.11	8.40	8.71	15.85	17.19	16.21	17.50	17.81
	3H	7.79	8.98	8.17	9.31	9.67	16.35	17.54	16.73	17.87	18.23
	4H	8.30	9.41	8.71	9.76	10.14	16.36	17.47	16.77	17.82	18.20
	6H	8.75	9.77	9.17	10.14	10.54	16.36	17.38	16.78	17.75	18.14
	8H	8.95	9.91	9.38	10.30	10.70	16.36	17.32	16.79	17.71	18.12
	12H	9.16	10.08	9.59	10.46	10.89	16.36	17.28	16.79	17.66	18.09
4H	2H	7.84	8.95	8.24	9.30	9.68	15.74	16.84	16.14	17.19	17.58
	3H	9.11	10.02	9.52	10.42	10.82	16.32	17.22	16.73	17.62	18.03
	4H	9.82	10.63	10.25	11.05	11.49	16.36	17.17	16.80	17.59	18.03
	6H	10.45	11.15	10.91	11.59	12.06	16.42	17.11	16.88	17.56	18.03
	8H	10.69	11.35	11.16	11.79	12.26	16.43	17.09	16.90	17.53	18.00
	12H	10.97	11.55	11.46	12.03	12.50	16.47	17.04	16.95	17.53	18.00
8H	4H	10.24	10.90	10.71	11.34	11.81	16.31	16.96	16.78	17.41	17.88
	6H	11.12	11.66	11.62	12.15	12.63	16.41	16.94	16.91	17.44	17.92
	8H	11.53	12.01	12.05	12.52	13.02	16.47	16.95	16.99	17.46	17.95
	12H	12.01	12.43	12.52	12.93	13.50	16.57	16.99	17.08	17.49	18.06
12H	4H	10.29	10.86	10.77	11.35	11.82	16.28	16.86	16.77	17.34	17.82
	6H	11.23	11.71	11.75	12.23	12.72	16.38	16.87	16.90	17.38	17.87
	8H	11.75	12.18	12.27	12.67	13.24	16.49	16.92	17.00	17.41	17.98