

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: P1060823

Luminaire Tested: S124RDRP-H350D927-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-78)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-H350D927-X4F0-XX-UDD-BVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

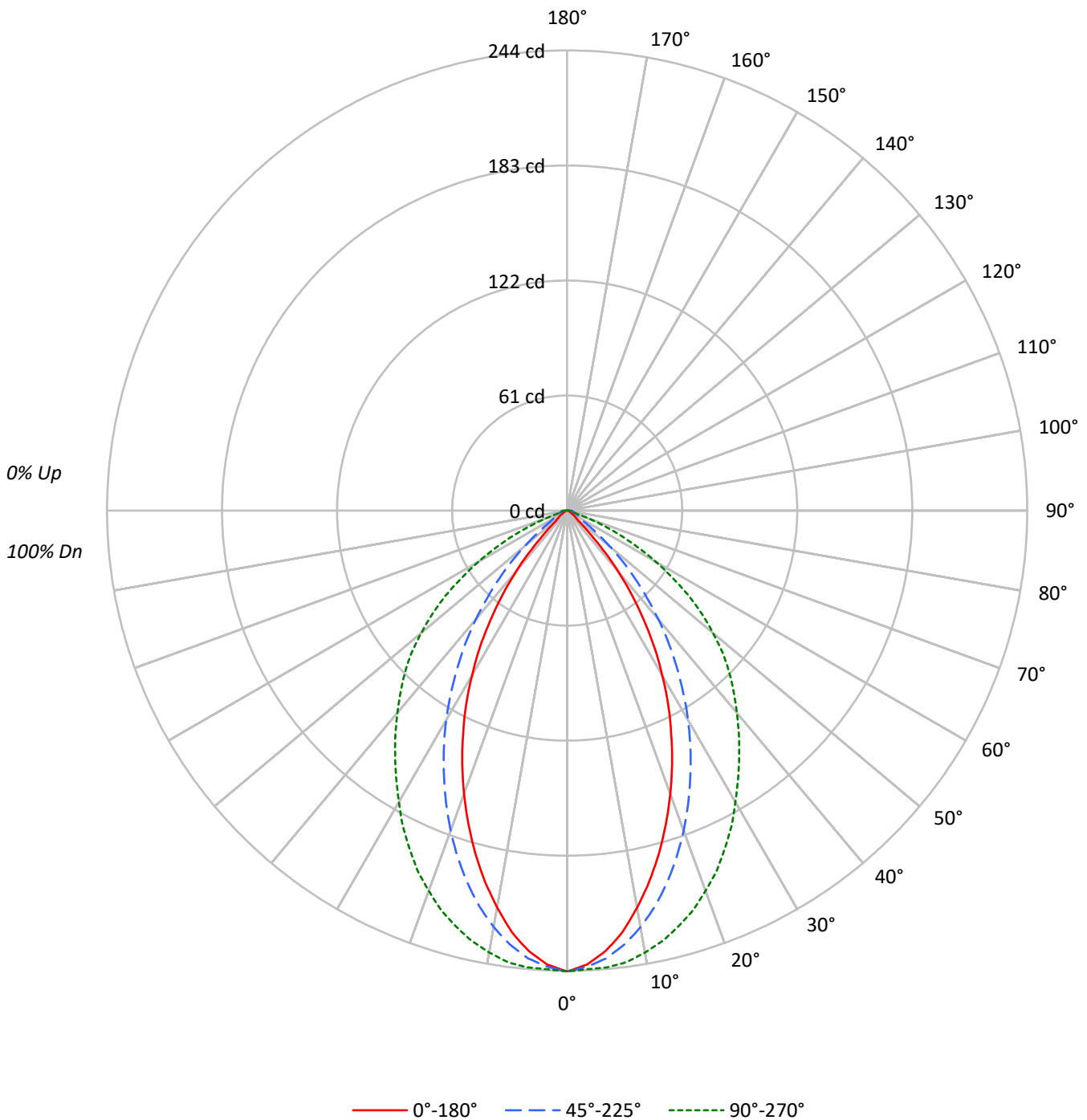
Lumens per Lamp: N/A
Luminaire Lumens: 306.8 lumens
Efficiency: N/A
Efficacy: 26.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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	98	98	96	95	95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2105	2105	2105
5°	2026	2060	2101
10°	1869	1961	2080
15°	1677	1821	2034
20°	1465	1655	1967
25°	1240	1470	1879
30°	1001	1275	1774
35°	745	1065	1671
40°	473	844	1573
45°	189	619	1482
50°	83	395	1353
55°	63	204	1182
60°	45	140	937
65°	33	139	640
70°	33	123	295
75°	43	130	120
80°	64	144	129
85°	128	257	188

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1482 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	7.3
10°-20°	57.7	18.8
20°-30°	72.9	23.8
30°-40°	67.0	21.8
40°-50°	45.6	14.9
50°-60°	24.8	8.1
60°-70°	10.5	3.4
70°-80°	3.6	1.2
80°-90°	2.3	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°	153.0	49.9
0°-40°	219.9	71.7
0°-60°	290.3	94.6
0°-90°	306.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	306.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	244	244	244	244	244	
5°	234	238	238	240	243	22
15°	188	194	204	219	228	52
25°	130	139	155	179	198	60
35°	71	80	101	133	159	44
45°	16	25	51	90	122	14
55°	4	4	14	50	79	4
65°	2	2	7	16	31	2
75°	1	4	4	4	4	1
85°	1	3	3	3	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	244.4	244.4	244.4	244.4	244.4
2.5°	240.9	243.8	242.1	242.8	243.4
5°	234.4	237.9	238.3	240.2	243.1
7.5°	225.3	229.5	232.1	237.0	241.5
10°	213.7	218.8	224.3	232.1	237.9
12.5°	201.4	206.9	215.0	226.0	233.7
15°	188.1	194.2	204.3	218.8	228.2
17.5°	174.2	181.0	192.9	210.1	222.1
20°	159.9	167.4	180.6	200.1	214.6
22.5°	145.4	153.1	167.7	189.7	206.9
25°	130.5	138.9	154.7	178.7	197.8
27.5°	116.2	124.0	141.5	167.7	188.7
30°	100.7	109.4	128.2	156.4	178.4
32.5°	86.4	94.9	114.6	144.7	168.7
35°	70.9	80.3	101.3	133.1	159.0
37.5°	56.3	65.4	88.4	122.0	149.6
40°	42.1	51.5	75.1	111.0	139.9
42.5°	28.2	38.2	62.5	99.7	130.8
45°	15.5	24.9	50.8	90.0	121.7
47.5°	8.1	13.6	39.8	80.3	112.0
50°	6.2	7.4	29.5	69.6	101.0
52.5°	5.2	5.5	20.1	58.9	90.0
55°	4.2	4.5	13.6	49.5	78.7
57.5°	3.2	3.6	9.7	40.5	66.0
60°	2.6	2.9	8.1	31.1	54.4
62.5°	1.9	2.3	7.8	23.0	42.7
65°	1.6	1.9	6.8	15.5	31.4
67.5°	1.3	1.9	5.8	10.0	21.0
70°	1.3	2.6	4.9	6.5	11.7
72.5°	1.3	2.9	4.2	4.2	4.2
75°	1.3	3.6	3.9	3.6	3.6
77.5°	1.3	3.2	3.2	3.2	3.2
80°	1.3	2.9	2.9	2.9	2.6
82.5°	1.3	2.6	2.9	2.9	2.3
85°	1.3	2.6	2.6	2.6	1.9
87.5°	1.0	2.6	2.6	2.6	1.3
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	0.00	0.00	0.00	0.00	0.00	11.03	12.31	11.40	12.62	12.93
	3H	0.00	0.00	0.00	0.00	0.00	11.39	12.51	11.77	12.84	13.21
	4H	0.00	0.00	0.00	0.00	0.00	11.35	12.40	11.76	12.75	13.14
	6H	0.00	0.00	0.00	0.00	0.00	11.33	12.29	11.74	12.66	13.05
	8H	0.00	0.00	0.00	0.00	0.00	11.32	12.23	11.75	12.62	13.02
	12H	0.00	0.00	0.00	0.05	0.48	11.31	12.18	11.75	12.57	13.00
4H	2H	0.00	0.00	0.00	0.00	0.00	10.83	11.88	11.24	12.23	12.62
	3H	0.00	0.00	0.00	0.00	0.00	11.23	12.08	11.64	12.49	12.89
	4H	0.00	0.39	0.06	0.81	1.25	11.21	11.97	11.64	12.39	12.84
	6H	0.85	1.51	1.31	1.96	2.42	11.23	11.88	11.69	12.33	12.80
	8H	1.42	2.04	1.89	2.48	2.96	11.24	11.85	11.71	12.30	12.77
	12H	2.10	2.64	2.59	3.13	3.60	11.27	11.81	11.76	12.30	12.77
8H	4H	0.69	1.30	1.16	1.75	2.22	11.11	11.72	11.58	12.17	12.64
	6H	2.28	2.78	2.78	3.28	3.76	11.16	11.66	11.66	12.16	12.64
	8H	3.12	3.57	3.64	4.09	4.58	11.21	11.67	11.74	12.18	12.68
	12H	4.09	4.49	4.61	4.99	5.56	11.33	11.73	11.85	12.22	12.80
12H	4H	0.87	1.41	1.36	1.90	2.37	11.07	11.61	11.56	12.10	12.57
	6H	2.62	3.07	3.15	3.59	4.08	11.12	11.58	11.65	12.09	12.59
	8H	3.65	4.05	4.16	4.54	5.12	11.23	11.63	11.74	12.12	12.70