

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: P1060598

Luminaire Tested: S124RDRP-S795D935-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060598
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-S795D935-X4F0-XX-UDD-BVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

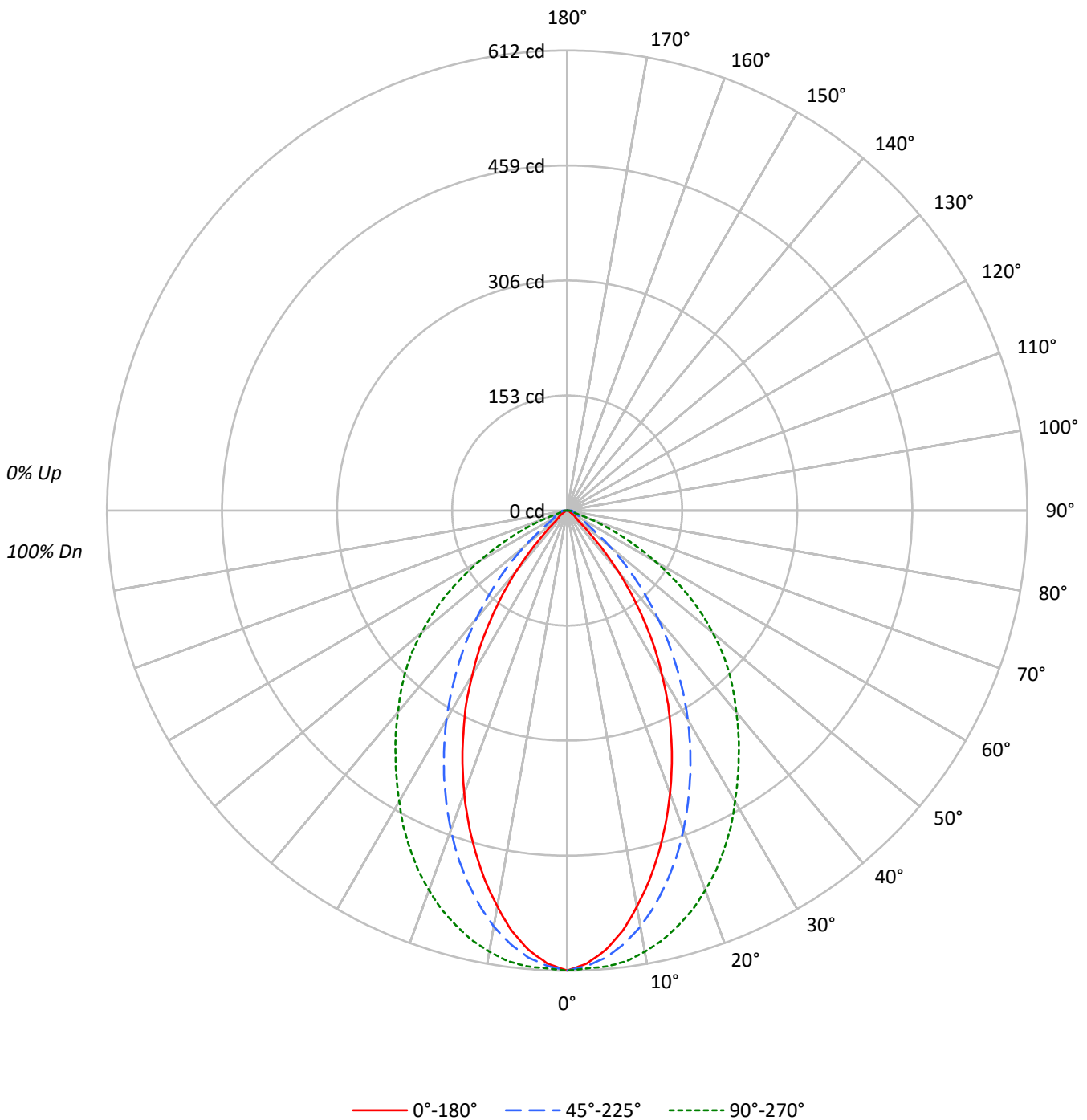
Lumens per Lamp: N/A
Luminaire Lumens: 767.9 lumens
Efficiency: N/A
Efficacy: 29.8 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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				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	103	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°	5268	5268	5268
5°	5071	5155	5261
10°	4676	4911	5208
15°	4197	4558	5093
20°	3668	4144	4924
25°	3103	3681	4704
30°	2506	3191	4440
35°	1866	2666	4183
40°	1184	2113	3935
45°	474	1549	3711
50°	206	987	3387
55°	158	510	2956
60°	112	350	2344
65°	84	346	1602
70°	81	307	735
75°	106	323	296
80°	159	362	322
85°	316	642	484

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3711 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	7.3
10°-20°	144.5	18.8
20°-30°	182.5	23.8
30°-40°	167.6	21.8
40°-50°	114.3	14.9
50°-60°	62.0	8.1
60°-70°	26.3	3.4
70°-80°	9.1	1.2
80°-90°	5.8	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°	382.9	49.9
0°-40°	550.5	71.7
0°-60°	726.7	94.6
0°-90°	767.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	767.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	612	612	612	612	612	
5°	587	596	596	601	609	54
15°	471	486	511	548	571	131
25°	327	348	387	447	495	149
35°	178	201	254	333	398	110
45°	39	62	127	225	305	36
55°	10	11	34	124	197	9
65°	4	5	17	39	79	4
75°	3	9	10	9	9	3
85°	3	6	6	6	5	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	611.8	611.8	611.8	611.8	611.8
2.5°	602.9	610.2	606.1	607.8	609.4
5°	586.7	595.6	596.4	601.3	608.6
7.5°	564.0	574.5	581.0	593.2	604.5
10°	534.8	547.8	561.6	581.0	595.6
12.5°	504.0	517.8	538.1	565.6	585.1
15°	470.8	486.2	511.3	547.8	571.3
17.5°	436.0	453.0	483.0	525.9	555.9
20°	400.3	419.0	452.2	500.8	537.3
22.5°	363.9	383.3	419.8	474.9	517.8
25°	326.6	347.6	387.4	447.3	495.1
27.5°	290.9	310.4	354.1	419.8	472.4
30°	252.0	273.9	320.9	391.4	446.5
32.5°	216.4	237.4	286.9	362.2	422.2
35°	177.5	201.0	253.6	333.1	397.9
37.5°	141.0	163.7	221.2	305.5	374.4
40°	105.3	128.8	188.0	278.0	350.1
42.5°	70.5	95.6	156.4	249.6	327.4
45°	38.9	62.4	127.2	225.3	304.7
47.5°	20.3	34.0	99.7	201.0	280.4
50°	15.4	18.6	73.7	174.2	252.8
52.5°	13.0	13.8	50.2	147.5	225.3
55°	10.5	11.3	34.0	124.0	196.9
57.5°	8.1	8.9	24.3	101.3	165.3
60°	6.5	7.3	20.3	77.8	136.1
62.5°	4.9	5.7	19.4	57.5	107.0
65°	4.1	4.9	17.0	38.9	78.6
67.5°	3.2	4.9	14.6	25.1	52.7
70°	3.2	6.5	12.2	16.2	29.2
72.5°	3.2	7.3	10.5	10.5	10.5
75°	3.2	8.9	9.7	8.9	8.9
77.5°	3.2	8.1	8.1	8.1	8.1
80°	3.2	7.3	7.3	7.3	6.5
82.5°	3.2	6.5	7.3	7.3	5.7
85°	3.2	6.5	6.5	6.5	4.9
87.5°	2.4	6.5	6.5	6.5	3.2
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	14.22	15.49	14.58	15.80	16.12
	3H	0.00	0.00	0.00	0.00	0.00	14.57	15.70	14.95	16.03	16.39
	4H	0.00	0.14	0.00	0.50	0.88	14.54	15.59	14.94	15.94	16.32
	6H	0.45	1.41	0.87	1.79	2.18	14.51	15.48	14.93	15.85	16.24
	8H	1.13	2.04	1.56	2.43	2.84	14.50	15.41	14.93	15.80	16.21
	12H	1.92	2.79	2.36	3.18	3.61	14.50	15.37	14.93	15.75	16.18
4H	2H	0.00	0.95	0.31	1.31	1.69	14.02	15.07	14.42	15.42	15.80
	3H	1.33	2.19	1.75	2.59	3.00	14.41	15.27	14.83	15.67	16.08
	4H	2.78	3.54	3.21	3.96	4.40	14.39	15.16	14.83	15.58	16.02
	6H	4.02	4.68	4.48	5.12	5.59	14.41	15.07	14.88	15.52	15.99
	8H	4.58	5.20	5.05	5.65	6.12	14.42	15.04	14.89	15.48	15.96
	12H	5.25	5.80	5.74	6.28	6.75	14.46	15.00	14.95	15.49	15.96
8H	4H	3.85	4.47	4.32	4.91	5.39	14.29	14.91	14.76	15.36	15.83
	6H	5.46	5.96	5.97	6.46	6.94	14.34	14.85	14.85	15.34	15.83
	8H	6.30	6.75	6.82	7.26	7.76	14.40	14.85	14.92	15.37	15.86
	12H	7.26	7.66	7.78	8.16	8.73	14.52	14.92	15.03	15.41	15.99
12H	4H	4.04	4.58	4.53	5.07	5.54	14.26	14.80	14.74	15.28	15.76
	6H	5.81	6.26	6.33	6.78	7.27	14.31	14.76	14.84	15.28	15.77
	8H	6.83	7.23	7.35	7.73	8.30	14.42	14.82	14.93	15.31	15.88