

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: P1060313

Luminaire Tested: S124RDRP-S1195D835-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060313
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: S124RDRP-S1195D835-X4F0-XX-UDD-SVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

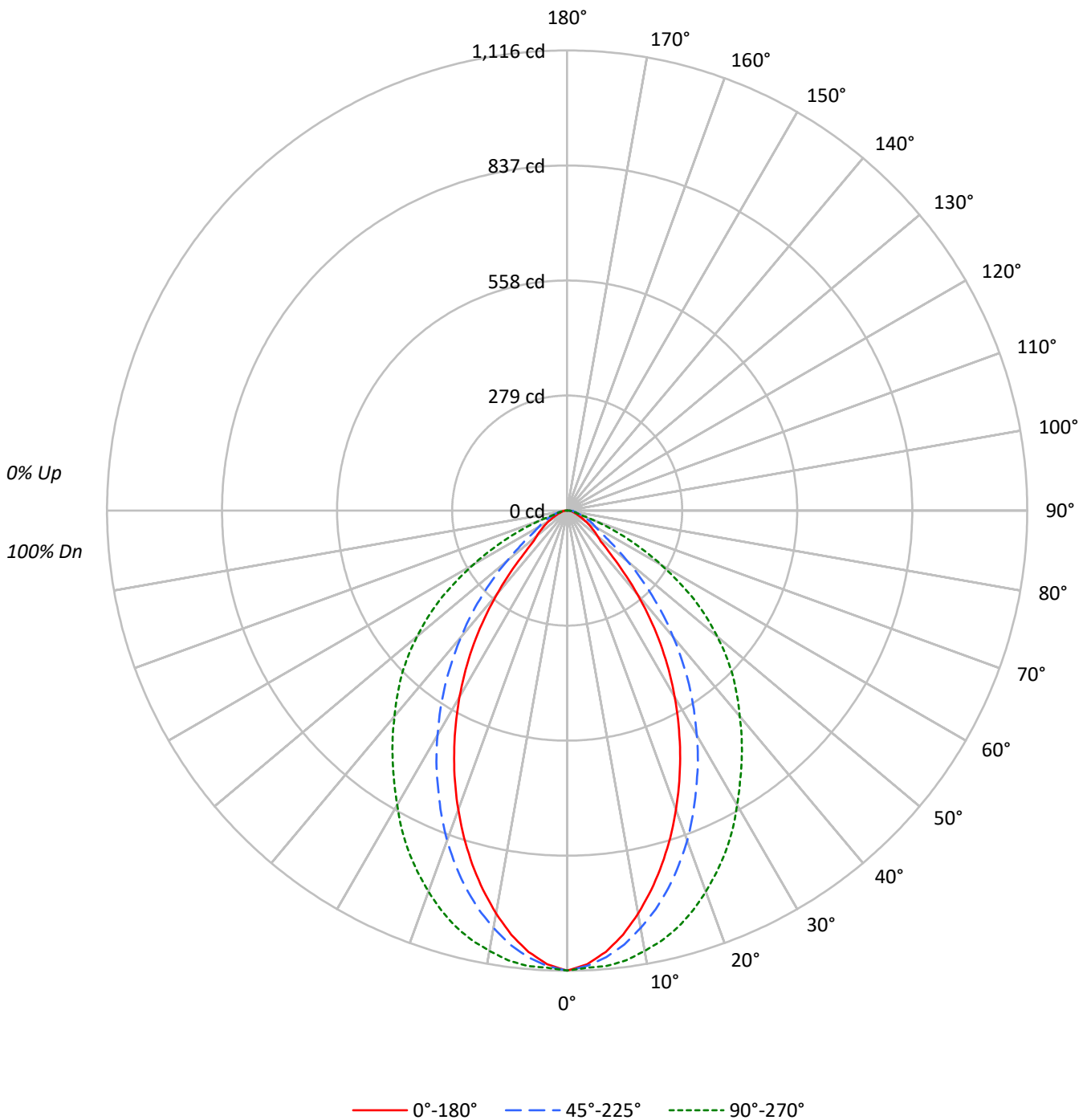
Lumens per Lamp: N/A
Luminaire Lumens: 1568.5 lumens
Efficiency: N/A
Efficacy: 37.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9606	9606	9606
5°	9286	9397	9581
10°	8674	8984	9480
15°	7920	8451	9312
20°	7074	7803	9013
25°	6163	7039	8657
30°	5192	6251	8198
35°	4147	5416	7758
40°	2983	4499	7322
45°	1797	3543	6930
50°	1293	2567	6369
55°	1087	1727	5646
60°	880	1369	4547
65°	695	1243	3268
70°	607	1037	1750
75°	566	945	848
80°	565	987	774
85°	840	1403	978

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6930 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	6.5
10°-20°	268.3	17.1
20°-30°	348.1	22.2
30°-40°	334.6	21.3
40°-50°	248.3	15.8
50°-60°	152.1	9.7
60°-70°	73.9	4.7
70°-80°	28.1	1.8
80°-90°	12.6	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°	718.8	45.8
0°-40°	1053.5	67.2
0°-60°	1453.8	92.7
0°-90°	1568.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1568.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1074	1090	1087	1097	1108	100
15°	888	914	948	1005	1044	248
25°	649	681	741	836	911	296
35°	394	430	515	637	738	244
45°	148	184	291	444	569	122
55°	72	75	115	260	376	65
65°	34	37	61	96	160	35
75°	17	27	28	26	26	18
85°	8	14	14	13	10	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1115.5	1115.5	1115.5	1115.5	1115.5
2.5°	1101.3	1114.0	1105.5	1108.4	1109.8
5°	1074.3	1089.9	1087.1	1097.0	1108.4
7.5°	1037.4	1055.8	1061.5	1081.4	1099.8
10°	992.0	1014.7	1027.5	1060.1	1084.2
12.5°	942.3	966.4	990.6	1034.6	1067.2
15°	888.4	913.9	948.0	1004.8	1044.5
17.5°	831.6	860.0	901.2	969.3	1016.1
20°	772.0	801.8	851.5	926.7	983.5
22.5°	711.0	742.2	797.6	881.3	948.0
25°	648.6	681.2	740.8	835.9	911.1
27.5°	584.7	618.8	686.9	787.6	869.9
30°	522.2	554.9	628.7	738.0	824.5
32.5°	458.4	492.4	571.9	686.9	780.5
35°	394.5	430.0	515.2	637.2	738.0
37.5°	329.2	367.6	457.0	588.9	695.4
40°	265.4	302.3	400.2	539.3	651.4
42.5°	202.9	242.7	346.3	489.6	610.2
45°	147.6	184.5	290.9	444.2	569.1
47.5°	110.7	133.4	239.8	401.6	523.7
50°	96.5	100.8	191.6	354.8	475.4
52.5°	83.7	86.6	149.0	303.7	427.2
55°	72.4	75.2	115.0	259.7	376.1
57.5°	61.0	63.9	92.2	217.1	317.9
60°	51.1	53.9	79.5	173.1	264.0
62.5°	42.6	44.0	71.0	132.0	211.5
65°	34.1	36.9	61.0	96.5	160.4
67.5°	28.4	31.2	49.7	66.7	112.1
70°	24.1	31.2	41.2	46.8	69.5
72.5°	19.9	28.4	34.1	32.6	32.6
75°	17.0	27.0	28.4	25.5	25.5
77.5°	14.2	24.1	22.7	21.3	19.9
80°	11.4	19.9	19.9	17.0	15.6
82.5°	9.9	15.6	15.6	15.6	12.8
85°	8.5	14.2	14.2	12.8	9.9
87.5°	5.7	11.4	12.8	11.4	7.1
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	7.68	9.01	8.04	9.33	9.64	16.77	18.11	17.14	18.42	18.74
	3H	8.72	9.91	9.10	10.24	10.60	17.27	18.46	17.65	18.79	19.16
	4H	9.23	10.34	9.64	10.69	11.07	17.29	18.39	17.69	18.74	19.13
	6H	9.69	10.70	10.10	11.07	11.47	17.29	18.30	17.70	18.67	19.07
	8H	9.88	10.84	10.31	11.23	11.63	17.28	18.25	17.71	18.64	19.04
	12H	10.09	11.01	10.52	11.39	11.82	17.28	18.20	17.71	18.59	19.02
4H	2H	8.77	9.88	9.17	10.23	10.61	16.66	17.77	17.06	18.12	18.50
	3H	10.04	10.94	10.45	11.35	11.75	17.24	18.14	17.65	18.55	18.95
	4H	10.74	11.55	11.18	11.97	12.42	17.29	18.10	17.72	18.51	18.96
	6H	11.38	12.08	11.84	12.52	12.99	17.34	18.04	17.80	18.48	18.95
	8H	11.62	12.27	12.09	12.72	13.19	17.36	18.01	17.82	18.46	18.93
	12H	11.90	12.47	12.38	12.96	13.43	17.39	17.97	17.87	18.45	18.92
8H	4H	11.17	11.82	11.64	12.27	12.74	17.23	17.89	17.70	18.33	18.81
	6H	12.05	12.58	12.55	13.08	13.56	17.33	17.86	17.83	18.36	18.84
	8H	12.46	12.94	12.98	13.45	13.94	17.39	17.87	17.91	18.39	18.88
	12H	12.93	13.36	13.45	13.85	14.42	17.49	17.91	18.00	18.41	18.98
12H	4H	11.21	11.79	11.70	12.28	12.75	17.21	17.79	17.69	18.27	18.74
	6H	12.16	12.64	12.68	13.16	13.65	17.31	17.79	17.83	18.30	18.80
	8H	12.68	13.10	13.19	13.60	14.17	17.41	17.84	17.93	18.33	18.90