

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: P1060322

Luminaire Tested: S124RDRP-S1195D840-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060322
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-S1195D840-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

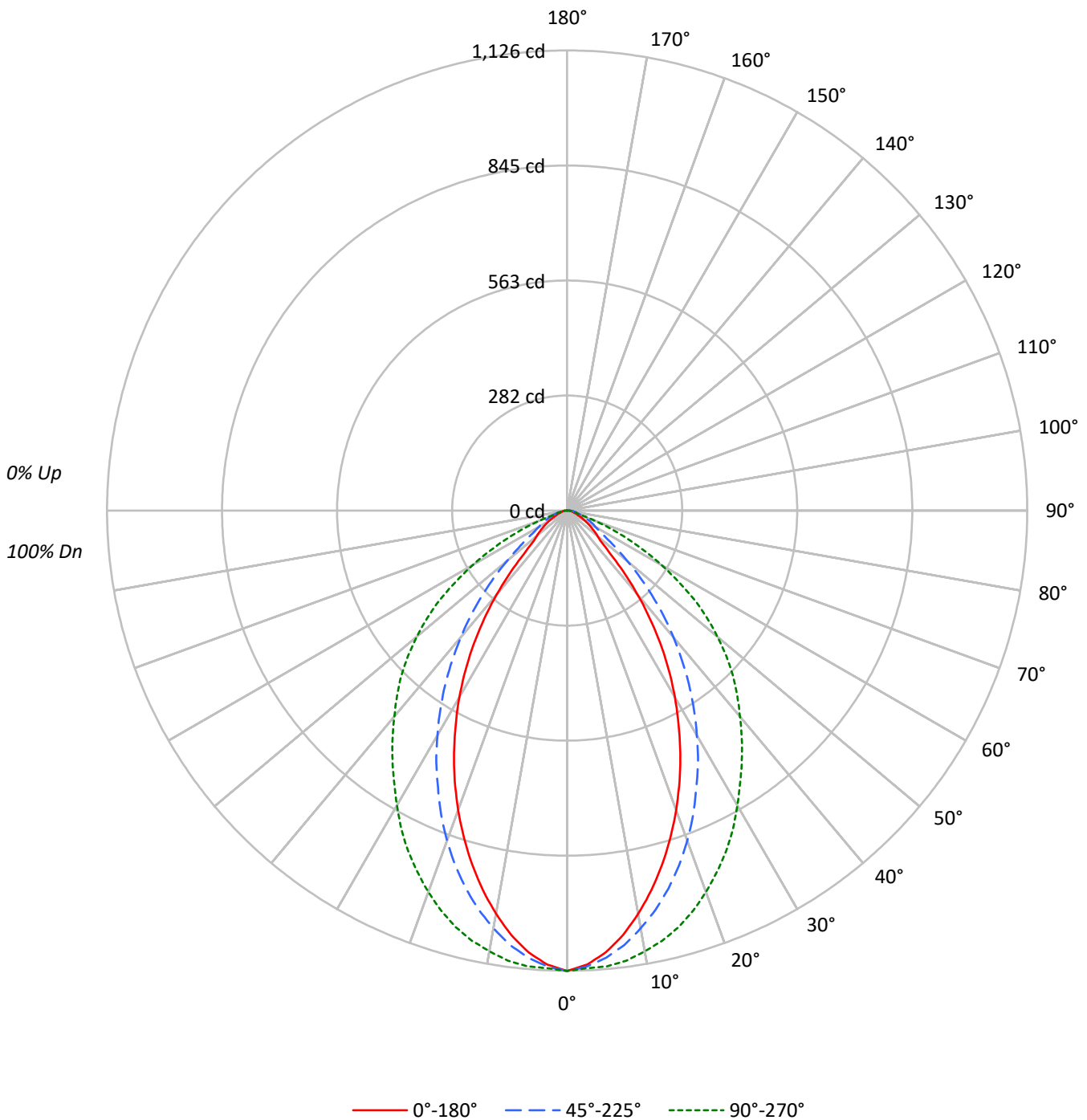
Lumens per Lamp: N/A
Luminaire Lumens: 1584.0 lumens
Efficiency: N/A
Efficacy: 37.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9700	9700	9700
5°	9378	9489	9675
10°	8760	9073	9574
15°	7998	8534	9403
20°	7144	7880	9101
25°	6223	7108	8742
30°	5244	6313	8280
35°	4188	5468	7834
40°	3013	4543	7394
45°	1815	3578	6999
50°	1306	2592	6432
55°	1097	1743	5702
60°	889	1383	4591
65°	701	1255	3299
70°	614	1047	1767
75°	572	955	858
80°	570	997	784
85°	850	1413	988

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6999 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	6.5
10°-20°	270.9	17.1
20°-30°	351.6	22.2
30°-40°	337.9	21.3
40°-50°	250.7	15.8
50°-60°	153.6	9.7
60°-70°	74.6	4.7
70°-80°	28.4	1.8
80°-90°	12.8	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°	725.9	45.8
0°-40°	1063.9	67.2
0°-60°	1468.2	92.7
0°-90°	1584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1085	1101	1098	1108	1119	101
15°	897	923	957	1015	1055	250
25°	655	688	748	844	920	299
35°	398	434	520	644	745	247
45°	149	186	294	449	575	124
55°	73	76	116	262	380	66
65°	34	37	62	98	162	36
75°	17	27	29	26	26	18
85°	9	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°	1126.5	1126.5	1126.5	1126.5	1126.5
2.5°	1112.1	1125.0	1116.4	1119.3	1120.7
5°	1084.9	1100.7	1097.8	1107.8	1119.3
7.5°	1047.6	1066.3	1072.0	1092.1	1110.7
10°	1001.8	1024.7	1037.6	1070.6	1094.9
12.5°	951.6	976.0	1000.3	1044.8	1077.7
15°	897.2	923.0	957.3	1014.7	1054.8
17.5°	839.8	868.5	910.1	978.8	1026.1
20°	779.6	809.7	859.9	935.8	993.2
22.5°	718.0	749.5	805.4	890.0	957.3
25°	655.0	687.9	748.1	844.1	920.1
27.5°	590.5	624.9	693.6	795.4	878.5
30°	527.4	560.4	634.9	745.2	832.7
32.5°	462.9	497.3	577.6	693.6	788.2
35°	398.4	434.2	520.2	643.5	745.2
37.5°	332.5	371.2	461.5	594.8	702.2
40°	268.0	305.3	404.1	544.6	657.8
42.5°	204.9	245.1	349.7	494.4	616.3
45°	149.0	186.3	293.8	448.6	574.7
47.5°	111.8	134.7	242.2	405.6	528.8
50°	97.5	101.8	193.5	358.3	480.1
52.5°	84.6	87.4	150.5	306.7	431.4
55°	73.1	76.0	116.1	262.3	379.8
57.5°	61.6	64.5	93.2	219.3	321.0
60°	51.6	54.5	80.3	174.8	266.6
62.5°	43.0	44.4	71.7	133.3	213.5
65°	34.4	37.3	61.6	97.5	161.9
67.5°	28.7	31.5	50.2	67.4	113.2
70°	24.4	31.5	41.6	47.3	70.2
72.5°	20.1	28.7	34.4	33.0	33.0
75°	17.2	27.2	28.7	25.8	25.8
77.5°	14.3	24.4	22.9	21.5	20.1
80°	11.5	20.1	20.1	17.2	15.8
82.5°	10.0	15.8	15.8	15.8	12.9
85°	8.6	14.3	14.3	12.9	10.0
87.5°	5.7	11.5	12.9	11.5	7.2
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	7.71	9.05	8.07	9.36	9.67	16.81	18.15	17.17	18.46	18.77
	3H	8.75	9.94	9.13	10.27	10.63	17.31	18.50	17.69	18.83	19.19
	4H	9.27	10.37	9.67	10.73	11.11	17.32	18.43	17.73	18.78	19.16
	6H	9.72	10.74	10.13	11.11	11.50	17.32	18.34	17.74	18.71	19.10
	8H	9.91	10.87	10.34	11.26	11.67	17.32	18.28	17.75	18.67	19.08
	12H	10.12	11.04	10.55	11.43	11.86	17.32	18.24	17.75	18.62	19.05
4H	2H	8.80	9.91	9.20	10.26	10.64	16.70	17.80	17.10	18.15	18.54
	3H	10.07	10.98	10.49	11.38	11.78	17.27	18.18	17.69	18.58	18.99
	4H	10.78	11.59	11.21	12.01	12.45	17.32	18.13	17.76	18.55	18.99
	6H	11.41	12.11	11.87	12.55	13.02	17.37	18.07	17.84	18.52	18.99
	8H	11.65	12.31	12.12	12.75	13.23	17.39	18.04	17.86	18.49	18.96
	12H	11.93	12.51	12.42	12.99	13.46	17.42	18.00	17.91	18.48	18.96
8H	4H	11.20	11.86	11.67	12.30	12.78	17.27	17.92	17.74	18.37	18.84
	6H	12.08	12.62	12.59	13.11	13.60	17.36	17.90	17.87	18.40	18.88
	8H	12.49	12.97	13.01	13.49	13.98	17.43	17.91	17.95	18.42	18.91
	12H	12.97	13.39	13.48	13.89	14.46	17.52	17.95	18.04	18.45	19.02
12H	4H	11.25	11.83	11.73	12.31	12.78	17.24	17.82	17.73	18.30	18.78
	6H	12.20	12.68	12.72	13.19	13.68	17.34	17.82	17.86	18.34	18.83
	8H	12.71	13.14	13.23	13.63	14.20	17.45	17.87	17.96	18.37	18.94