

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: P1060361

Luminaire Tested: S124RDRP-S1195D935-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-76)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D935-X4F0-XX-UDD-WVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

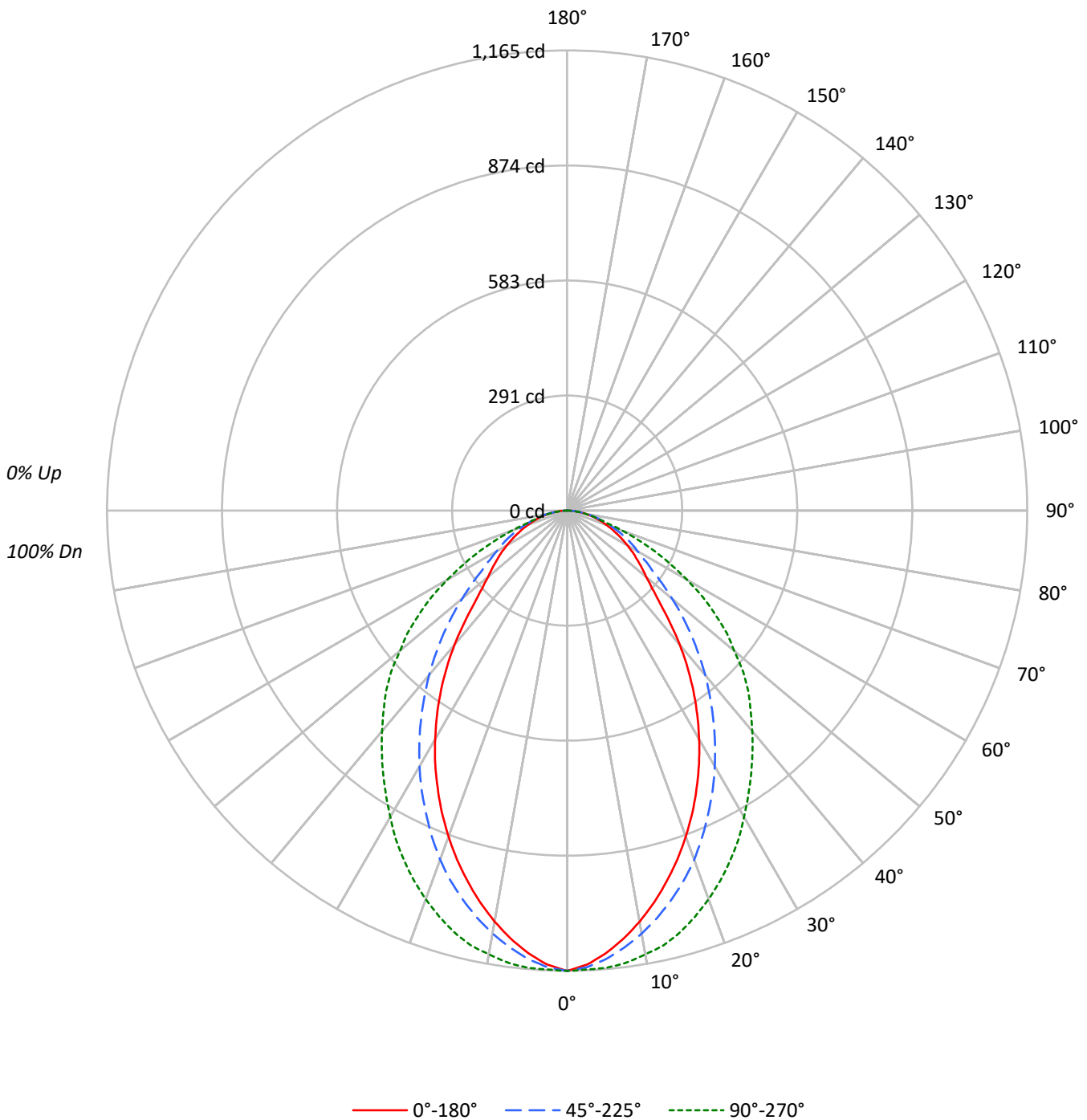
Lumens per Lamp: N/A
Luminaire Lumens: 2121.5 lumens
Efficiency: N/A
Efficacy: 50.8 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87									87																			
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75									75																			
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65									65																			
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57									57																			
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	52	50									50																			
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45									45																			
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41									41																			
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37									37																			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34									34																			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31									31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10035	10035	10035
5°	9725	9851	10041
10°	9239	9506	9976
15°	8668	9092	9855
20°	8049	8619	9593
25°	7369	8031	9285
30°	6644	7434	8903
35°	5855	6779	8539
40°	4984	6111	8197
45°	4046	5400	7899
50°	3502	4647	7396
55°	3246	3942	6858
60°	3029	3555	6016
65°	2836	3335	5002
70°	2644	3074	3782
75°	2519	2845	2722
80°	2360	2603	2301
85°	2174	2411	1808

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7899 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	5.1
10°-20°	289.2	13.6
20°-30°	394.9	18.6
30°-40°	413.7	19.5
40°-50°	358.1	16.9
50°-60°	269.1	12.7
60°-70°	173.5	8.2
70°-80°	89.0	4.2
80°-90°	26.6	1.3
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°	791.6	37.3
0°-40°	1205.3	56.8
0°-60°	1832.5	86.4
0°-90°	2121.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2121.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1165	1165	1165	1165	1165	
5°	1125	1142	1140	1148	1162	105
15°	972	997	1020	1066	1105	273
25°	776	805	845	911	977	356
35°	557	589	645	730	812	347
45°	332	366	443	552	649	262
55°	216	224	263	375	457	194
65°	139	142	164	198	246	138
75°	76	84	86	84	82	80
85°	22	26	24	23	18	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1165.3	1165.3	1165.3	1165.3	1165.3
2.5°	1150.6	1165.3	1156.7	1159.2	1162.9
5°	1125.0	1142.1	1139.6	1148.2	1161.6
7.5°	1093.2	1111.6	1115.2	1134.8	1154.3
10°	1056.6	1077.4	1087.1	1116.4	1140.9
12.5°	1016.3	1038.3	1055.4	1092.0	1127.4
15°	972.3	996.7	1019.9	1066.4	1105.4
17.5°	927.1	951.5	982.1	1033.4	1077.4
20°	878.3	905.1	940.5	994.3	1046.8
22.5°	828.2	856.3	894.1	952.8	1013.8
25°	775.6	805.0	845.3	911.2	977.2
27.5°	723.1	752.4	797.6	867.3	939.3
30°	668.2	698.7	747.6	823.3	895.4
32.5°	613.2	646.2	696.2	776.9	853.8
35°	557.0	588.8	644.9	730.5	812.3
37.5°	500.8	533.8	593.6	685.3	770.8
40°	443.4	477.6	543.6	640.1	729.2
42.5°	386.0	422.6	492.3	593.6	687.7
45°	332.2	366.4	443.4	552.1	648.6
47.5°	291.9	315.1	394.5	511.8	604.6
50°	261.4	273.6	346.9	467.8	552.1
52.5°	238.2	246.7	302.9	420.2	509.4
55°	216.2	223.5	262.6	375.0	456.8
57.5°	196.7	200.3	232.1	331.0	406.8
60°	175.9	179.6	206.4	283.4	349.3
62.5°	157.6	160.0	185.7	238.2	296.8
65°	139.2	141.7	163.7	197.9	245.5
67.5°	122.1	125.8	142.9	161.2	195.4
70°	105.0	112.4	122.1	130.7	150.2
72.5°	90.4	97.7	102.6	105.0	106.3
75°	75.7	84.3	85.5	84.3	81.8
77.5°	61.1	68.4	68.4	66.0	63.5
80°	47.6	53.7	52.5	50.1	46.4
82.5°	35.4	39.1	37.9	35.4	31.8
85°	22.0	25.7	24.4	23.2	18.3
87.5°	11.0	14.7	13.4	12.2	7.3
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	14.44	15.93	14.81	16.24	16.56	18.22	19.70	18.58	20.01	20.33
	3H	16.10	17.43	16.48	17.76	18.12	19.33	20.66	19.71	20.99	21.35
	4H	16.77	18.01	17.17	18.36	18.74	19.62	20.87	20.02	21.22	21.60
	6H	17.28	18.43	17.69	18.80	19.19	19.82	20.97	20.23	21.34	21.73
	8H	17.46	18.56	17.89	18.95	19.35	19.87	20.97	20.30	21.36	21.76
	12H	17.59	18.64	18.02	19.02	19.45	19.90	20.95	20.33	21.33	21.76
4H	2H	15.23	16.47	15.63	16.82	17.20	18.38	19.62	18.78	19.97	20.35
	3H	17.09	18.12	17.50	18.52	18.92	19.69	20.72	20.10	21.12	21.52
	4H	17.90	18.83	18.33	19.24	19.68	20.10	21.02	20.53	21.44	21.88
	6H	18.54	19.35	19.00	19.79	20.25	20.41	21.22	20.87	21.66	22.12
	8H	18.77	19.53	19.24	19.97	20.44	20.50	21.26	20.97	21.70	22.17
	12H	18.94	19.62	19.43	20.10	20.57	20.57	21.24	21.05	21.72	22.19
8H	4H	18.25	19.00	18.71	19.45	19.91	20.23	20.98	20.69	21.43	21.90
	6H	19.04	19.66	19.54	20.15	20.63	20.64	21.26	21.14	21.76	22.23
	8H	19.36	19.92	19.88	20.43	20.92	20.79	21.35	21.31	21.86	22.35
	12H	19.63	20.12	20.14	20.61	21.18	20.92	21.41	21.43	21.90	22.47
12H	4H	18.28	18.95	18.76	19.43	19.90	20.23	20.91	20.72	21.39	21.86
	6H	19.10	19.66	19.62	20.17	20.66	20.66	21.22	21.18	21.73	22.22
	8H	19.49	19.98	20.00	20.47	21.04	20.87	21.36	21.38	21.85	22.42