

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: P1060304

Luminaire Tested: S124RDRP-S1195D830-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060304
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-S1195D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

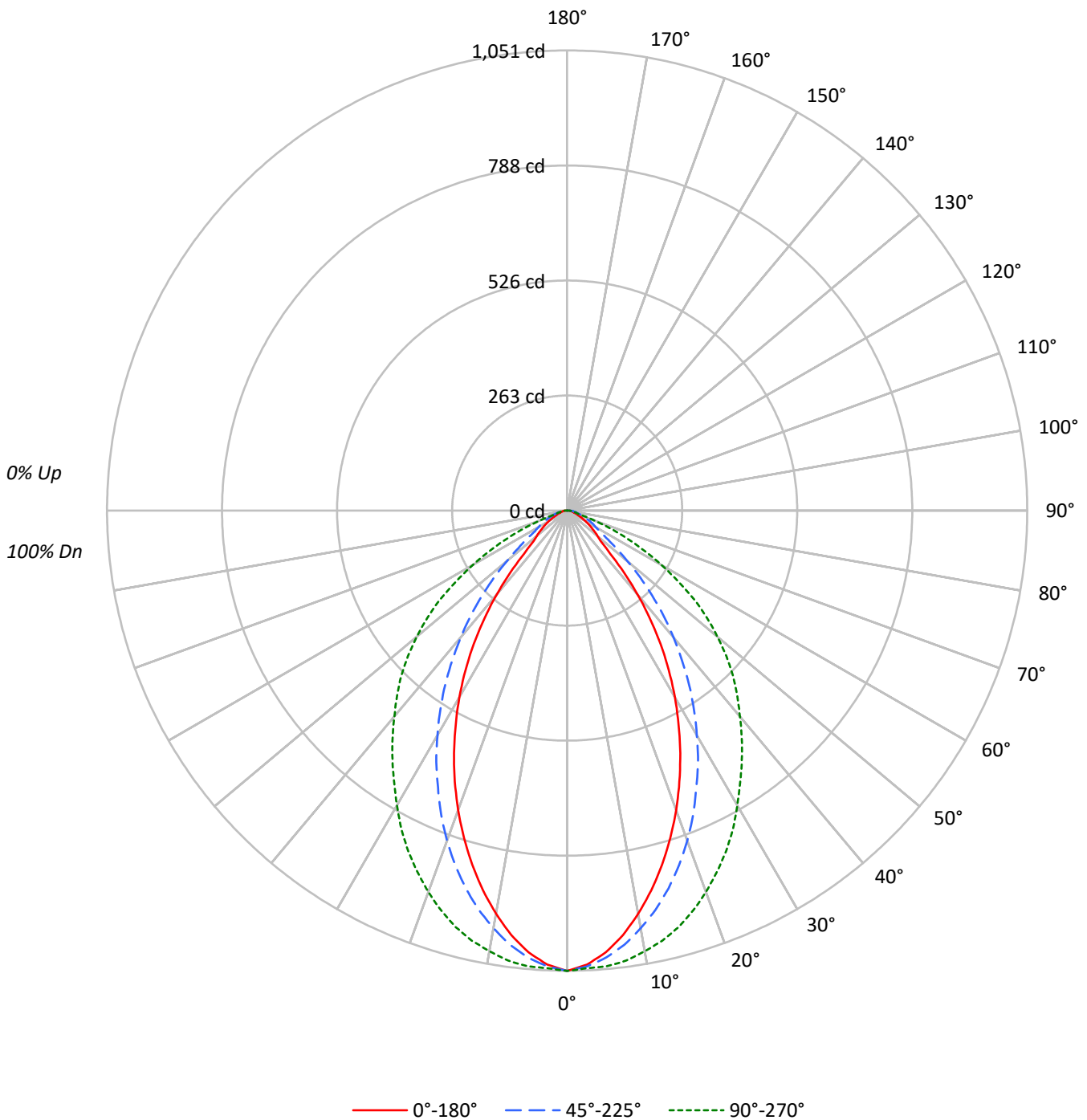
Lumens per Lamp: N/A
Luminaire Lumens: 1478.4 lumens
Efficiency: N/A
Efficacy: 35.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	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	47	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°	9054	9054	9054
5°	8753	8857	9030
10°	8176	8468	8935
15°	7464	7965	8777
20°	6668	7355	8495
25°	5808	6634	8159
30°	4894	5892	7728
35°	3910	5105	7312
40°	2811	4240	6902
45°	1694	3339	6532
50°	1219	2419	6003
55°	1024	1626	5322
60°	830	1290	4285
65°	654	1172	3081
70°	572	977	1649
75°	536	892	802
80°	531	927	729
85°	790	1324	929

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6532 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	6.5
10°-20°	252.9	17.1
20°-30°	328.1	22.2
30°-40°	315.4	21.3
40°-50°	234.0	15.8
50°-60°	143.3	9.7
60°-70°	69.6	4.7
70°-80°	26.5	1.8
80°-90°	11.9	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°	677.5	45.8
0°-40°	993.0	67.2
0°-60°	1370.3	92.7
0°-90°	1478.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1478.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1013	1027	1025	1034	1045	94
15°	837	861	894	947	984	234
25°	611	642	698	788	859	279
35°	372	405	486	601	696	230
45°	139	174	274	419	536	115
55°	68	71	108	245	354	61
65°	32	35	58	91	151	33
75°	16	25	27	24	24	17
85°	8	13	13	12	9	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1051.4	1051.4	1051.4	1051.4	1051.4
2.5°	1038.0	1050.0	1042.0	1044.7	1046.0
5°	1012.6	1027.3	1024.6	1034.0	1044.7
7.5°	977.8	995.2	1000.5	1019.3	1036.6
10°	935.0	956.4	968.4	999.2	1021.9
12.5°	888.2	910.9	933.7	975.1	1005.9
15°	837.3	861.4	893.5	947.0	984.5
17.5°	783.8	810.6	849.4	913.6	957.7
20°	727.7	755.8	802.6	873.5	927.0
22.5°	670.1	699.6	751.7	830.7	893.5
25°	611.3	642.1	698.2	787.9	858.7
27.5°	551.1	583.2	647.4	742.4	820.0
30°	492.2	523.0	592.6	695.6	777.2
32.5°	432.0	464.2	539.1	647.4	735.7
35°	371.9	405.3	485.6	600.6	695.6
37.5°	310.3	346.4	430.7	555.1	655.4
40°	250.1	284.9	377.2	508.3	614.0
42.5°	191.3	228.7	326.4	461.5	575.2
45°	139.1	173.9	274.2	418.7	536.4
47.5°	104.3	125.7	226.1	378.5	493.6
50°	91.0	95.0	180.6	334.4	448.1
52.5°	78.9	81.6	140.4	286.2	402.6
55°	68.2	70.9	108.3	244.8	354.5
57.5°	57.5	60.2	86.9	204.7	299.6
60°	48.2	50.8	74.9	163.2	248.8
62.5°	40.1	41.5	66.9	124.4	199.3
65°	32.1	34.8	57.5	91.0	151.2
67.5°	26.8	29.4	46.8	62.9	105.7
70°	22.7	29.4	38.8	44.1	65.5
72.5°	18.7	26.8	32.1	30.8	30.8
75°	16.1	25.4	26.8	24.1	24.1
77.5°	13.4	22.7	21.4	20.1	18.7
80°	10.7	18.7	18.7	16.1	14.7
82.5°	9.4	14.7	14.7	14.7	12.0
85°	8.0	13.4	13.4	12.0	9.4
87.5°	5.4	10.7	12.0	10.7	6.7
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	7.47	8.81	7.83	9.12	9.43	16.57	17.91	16.93	18.22	18.53
	3H	8.51	9.70	8.89	10.03	10.39	17.07	18.26	17.45	18.59	18.95
	4H	9.03	10.13	9.43	10.49	10.87	17.08	18.19	17.49	18.54	18.92
	6H	9.48	10.50	9.89	10.87	11.26	17.08	18.10	17.50	18.47	18.86
	8H	9.67	10.63	10.10	11.02	11.43	17.08	18.04	17.51	18.43	18.84
	12H	9.88	10.80	10.32	11.19	11.62	17.08	18.00	17.51	18.38	18.81
4H	2H	8.56	9.67	8.96	10.02	10.40	16.46	17.56	16.86	17.91	18.30
	3H	9.83	10.74	10.24	11.14	11.54	17.03	17.94	17.45	18.34	18.75
	4H	10.54	11.35	10.97	11.77	12.21	17.08	17.89	17.52	18.31	18.75
	6H	11.17	11.87	11.63	12.31	12.78	17.13	17.83	17.60	18.28	18.75
	8H	11.41	12.07	11.88	12.51	12.98	17.15	17.80	17.62	18.25	18.72
	12H	11.69	12.27	12.18	12.75	13.22	17.18	17.76	17.67	18.25	18.72
8H	4H	10.96	11.62	11.43	12.06	12.54	17.03	17.68	17.50	18.13	18.60
	6H	11.84	12.38	12.34	12.87	13.35	17.13	17.66	17.63	18.16	18.64
	8H	12.25	12.73	12.77	13.24	13.73	17.19	17.67	17.71	18.18	18.67
	12H	12.73	13.15	13.24	13.65	14.22	17.28	17.71	17.80	18.21	18.78
12H	4H	11.01	11.59	11.49	12.07	12.54	17.00	17.58	17.49	18.06	18.54
	6H	11.95	12.43	12.47	12.95	13.44	17.10	17.59	17.63	18.10	18.59
	8H	12.47	12.90	12.98	13.39	13.96	17.21	17.63	17.72	18.13	18.70