

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: P1060379

Luminaire Tested: S124RDRP-S1195D950-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060379
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-S1195D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

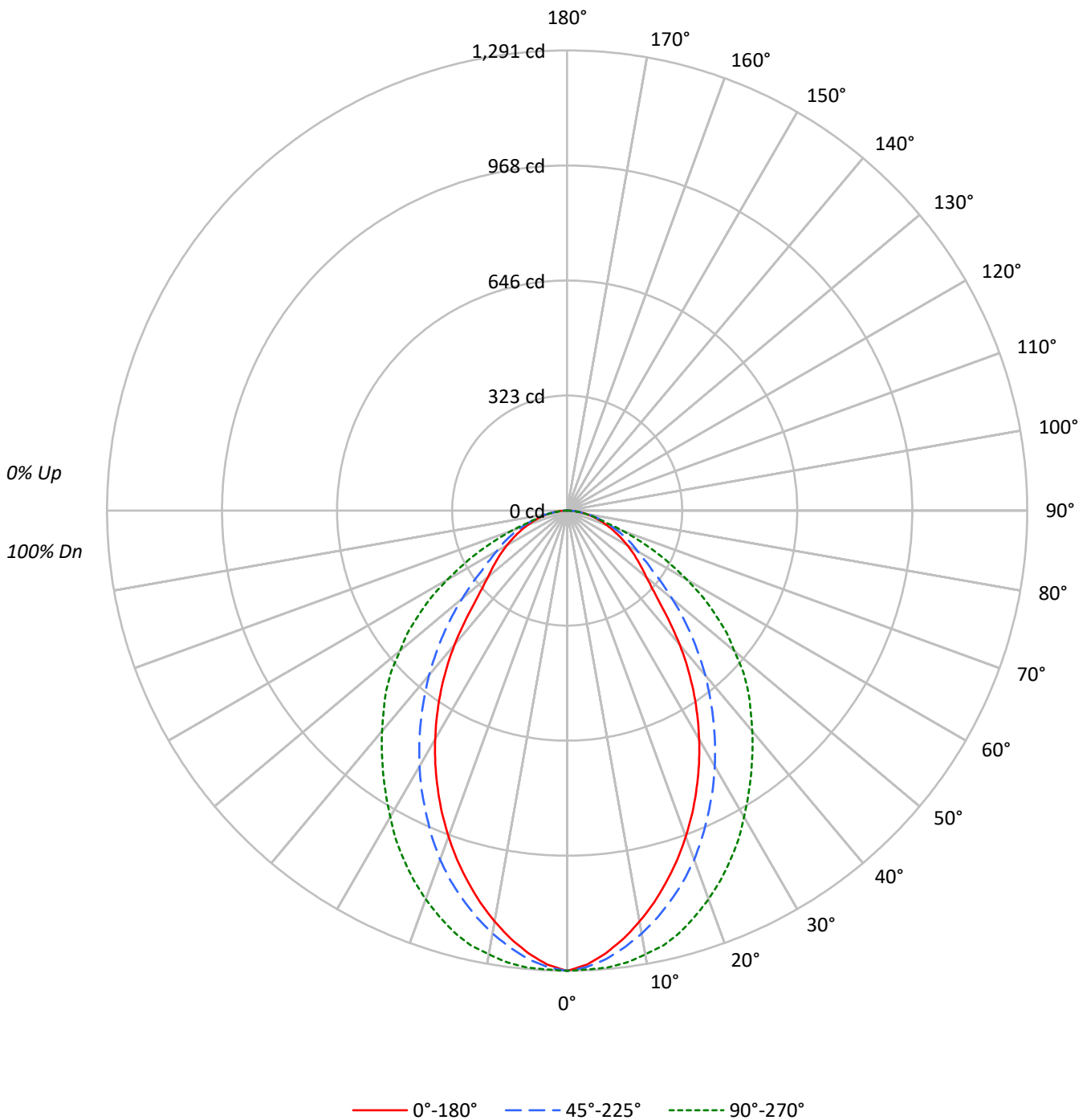
Lumens per Lamp: N/A
Luminaire Lumens: 2350.7 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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																												
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87																												
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75																												
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65																												
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57																												
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	52	50																												
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45																												
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41																												
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37																												
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34																												
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11119	11119	11119
5°	10775	10915	11126
10°	10237	10533	11053
15°	9604	10075	10920
20°	8917	9550	10629
25°	8165	8899	10287
30°	7361	8236	9865
35°	6488	7512	9461
40°	5523	6770	9083
45°	4483	5983	8752
50°	3880	5150	8196
55°	3597	4369	7600
60°	3357	3939	6667
65°	3144	3696	5542
70°	2931	3406	4192
75°	2791	3151	3018
80°	2618	2886	2549
85°	2411	2678	2006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8752 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	5.1
10°-20°	320.4	13.6
20°-30°	437.5	18.6
30°-40°	458.4	19.5
40°-50°	396.8	16.9
50°-60°	298.1	12.7
60°-70°	192.2	8.2
70°-80°	98.6	4.2
80°-90°	29.4	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°	877.2	37.3
0°-40°	1335.5	56.8
0°-60°	2030.5	86.4
0°-90°	2350.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2350.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1291	1291	1291	1291	1291	
5°	1246	1266	1263	1272	1287	117
15°	1077	1104	1130	1182	1225	302
25°	859	892	937	1010	1083	394
35°	617	652	715	809	900	384
45°	368	406	491	612	719	290
55°	240	248	291	416	506	215
65°	154	157	181	219	272	153
75°	84	93	95	93	91	89
85°	24	28	27	26	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1291.2	1291.2	1291.2	1291.2	1291.2
2.5°	1274.9	1291.2	1281.7	1284.4	1288.5
5°	1246.5	1265.5	1262.7	1272.2	1287.1
7.5°	1211.3	1231.6	1235.7	1257.3	1279.0
10°	1170.7	1193.7	1204.6	1237.0	1264.1
12.5°	1126.1	1150.4	1169.4	1210.0	1249.2
15°	1077.3	1104.4	1130.1	1181.5	1224.9
17.5°	1027.3	1054.3	1088.2	1145.0	1193.7
20°	973.1	1002.9	1042.1	1101.7	1159.9
22.5°	917.6	948.8	990.7	1055.7	1123.3
25°	859.4	891.9	936.6	1009.7	1082.7
27.5°	801.2	833.7	883.8	960.9	1040.8
30°	740.3	774.2	828.3	912.2	992.1
32.5°	679.4	716.0	771.5	860.8	946.0
35°	617.2	652.4	714.6	809.4	900.0
37.5°	554.9	591.4	657.8	759.3	854.0
40°	491.3	529.2	602.3	709.2	808.0
42.5°	427.7	468.3	545.4	657.8	762.0
45°	368.1	406.0	491.3	611.8	718.7
47.5°	323.5	349.2	437.2	567.1	669.9
50°	289.6	303.2	384.4	518.4	611.8
52.5°	263.9	273.4	335.7	465.6	564.4
55°	239.6	247.7	291.0	415.5	506.2
57.5°	217.9	222.0	257.2	366.8	450.7
60°	194.9	199.0	228.7	314.0	387.1
62.5°	174.6	177.3	205.7	263.9	328.9
65°	154.3	157.0	181.4	219.3	272.0
67.5°	135.3	139.4	158.4	178.7	216.5
70°	116.4	124.5	135.3	144.8	166.5
72.5°	100.2	108.3	113.7	116.4	117.7
75°	83.9	93.4	94.7	93.4	90.7
77.5°	67.7	75.8	75.8	73.1	70.4
80°	52.8	59.6	58.2	55.5	51.4
82.5°	39.2	43.3	42.0	39.2	35.2
85°	24.4	28.4	27.1	25.7	20.3
87.5°	12.2	16.2	14.9	13.5	8.1
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	14.80	16.29	15.17	16.60	16.91	18.57	20.06	18.94	20.37	20.69
	3H	16.46	17.79	16.83	18.11	18.48	19.69	21.02	20.07	21.35	21.71
	4H	17.13	18.37	17.53	18.72	19.10	19.98	21.22	20.38	21.57	21.95
	6H	17.64	18.79	18.05	19.16	19.55	20.18	21.33	20.59	21.69	22.08
	8H	17.82	18.92	18.25	19.30	19.71	20.23	21.32	20.66	21.71	22.11
	12H	17.95	18.99	18.38	19.38	19.81	20.26	21.30	20.69	21.68	22.11
4H	2H	15.58	16.83	15.98	17.18	17.56	18.73	19.98	19.13	20.33	20.71
	3H	17.45	18.48	17.86	18.88	19.28	20.05	21.08	20.46	21.48	21.88
	4H	18.25	19.18	18.69	19.60	20.04	20.45	21.38	20.89	21.80	22.24
	6H	18.90	19.71	19.36	20.15	20.61	20.77	21.58	21.23	22.02	22.48
	8H	19.13	19.88	19.59	20.33	20.80	20.86	21.62	21.33	22.06	22.53
	12H	19.30	19.97	19.78	20.45	20.92	20.92	21.60	21.41	22.08	22.55
8H	4H	18.60	19.36	19.07	19.80	20.27	20.59	21.34	21.05	21.79	22.25
	6H	19.40	20.02	19.89	20.51	20.99	21.00	21.62	21.50	22.11	22.59
	8H	19.72	20.28	20.23	20.79	21.28	21.15	21.71	21.66	22.22	22.71
	12H	19.98	20.48	20.49	20.97	21.53	21.27	21.77	21.78	22.26	22.83
12H	4H	18.63	19.31	19.12	19.79	20.26	20.59	21.26	21.07	21.74	22.21
	6H	19.46	20.02	19.97	20.53	21.02	21.02	21.58	21.54	22.09	22.58
	8H	19.85	20.34	20.36	20.83	21.40	21.22	21.72	21.73	22.21	22.77