

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: P1060377

Luminaire Tested: S124RDRP-S1195D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-74)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D950-X4F0-XX-UDD-SVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

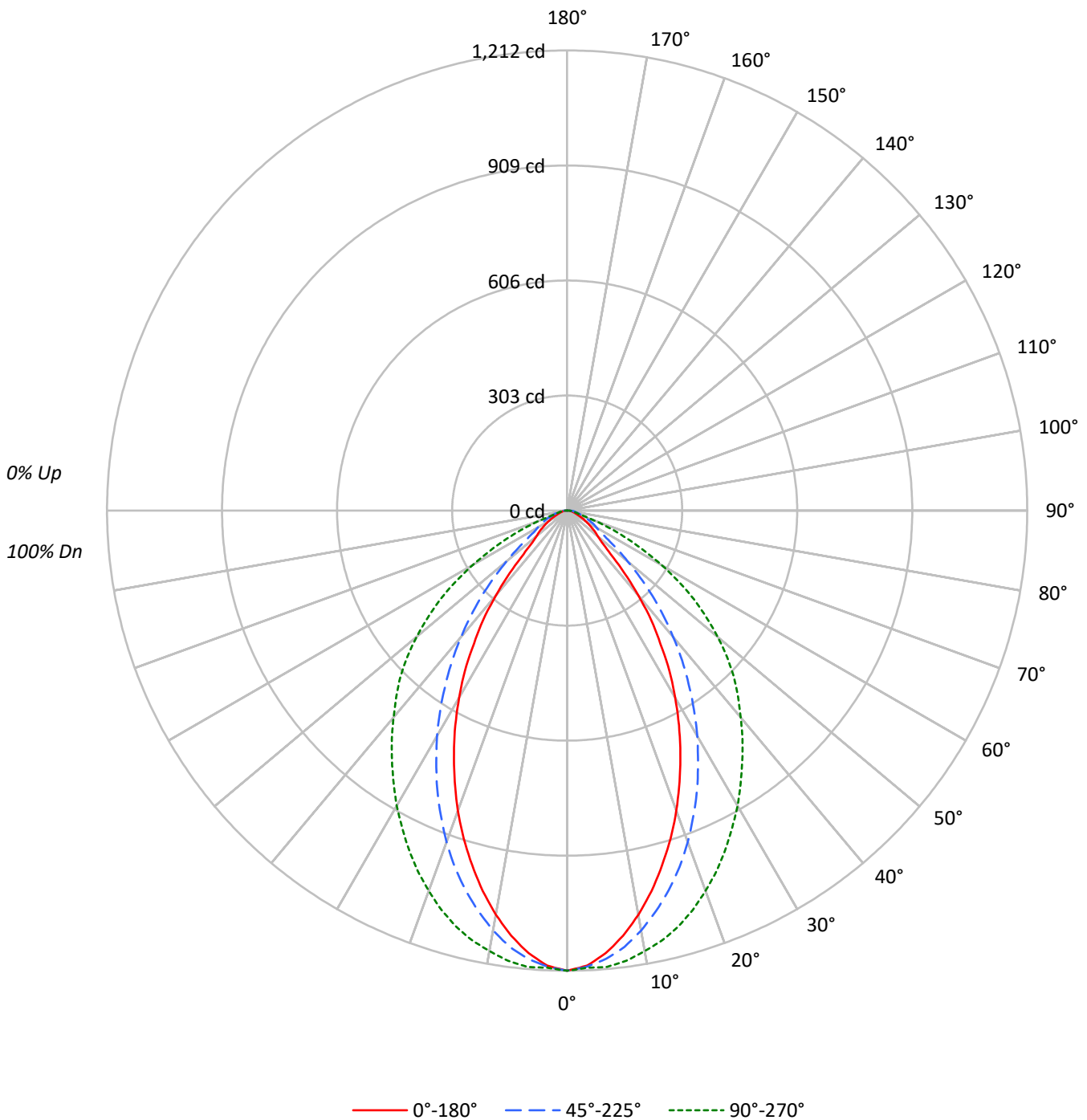
Lumens per Lamp: N/A
Luminaire Lumens: 1715.3 lumens
Efficiency: N/A
Efficacy: 41.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	104	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	66	75	70	66	73	68	65	63
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10436	10436	10436
5°	10114	10242	10429
10°	9449	9816	10301
15°	8619	9223	10104
20°	7706	8512	9766
25°	6703	7694	9366
30°	5655	6813	8927
35°	4498	5865	8456
40°	3272	4886	7991
45°	1979	3859	7569
50°	1415	2793	6930
55°	1200	1890	6119
60°	980	1540	4945
65°	772	1379	3560
70°	647	1158	1876
75°	586	1081	945
80°	605	1076	942
85°	800	1601	1067

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7569 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	6.5
10°-20°	292.4	17.0
20°-30°	379.2	22.1
30°-40°	365.0	21.3
40°-50°	271.5	15.8
50°-60°	167.0	9.7
60°-70°	82.0	4.8
70°-80°	32.0	1.9
80°-90°	14.6	0.9
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°	783.2	45.7
0°-40°	1148.2	66.9
0°-60°	1586.7	92.5
0°-90°	1715.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1715.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1212	1212	1212	1212	1212	
5°	1170	1188	1185	1196	1206	109
15°	967	998	1035	1097	1133	270
25°	706	743	810	911	986	323
35°	428	468	558	697	804	267
45°	162	202	317	489	622	135
55°	80	83	126	287	408	72
65°	38	41	68	108	175	39
75°	18	31	32	30	28	19
85°	8	15	16	16	11	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1211.9	1211.9	1211.9	1211.9	1211.9
2.5°	1199.8	1213.3	1202.5	1203.8	1205.2
5°	1170.0	1187.6	1184.9	1195.7	1206.5
7.5°	1129.3	1149.7	1159.1	1180.8	1195.7
10°	1080.6	1103.6	1122.6	1157.8	1178.1
12.5°	1026.4	1053.5	1080.6	1128.0	1159.1
15°	966.8	998.0	1034.6	1096.8	1133.4
17.5°	905.9	937.1	984.5	1056.2	1102.3
20°	840.9	874.8	928.9	1008.8	1065.7
22.5°	773.2	809.8	869.3	960.1	1027.8
25°	705.5	743.4	809.8	911.3	985.8
27.5°	637.8	674.4	746.1	859.9	941.1
30°	568.7	606.6	685.2	804.4	897.8
32.5°	502.4	537.6	621.5	751.5	850.4
35°	427.9	468.5	557.9	697.4	804.4
37.5°	364.3	400.8	497.0	643.2	758.3
40°	291.1	331.8	434.7	590.4	710.9
42.5°	223.4	264.1	375.1	537.6	666.2
45°	162.5	201.8	316.9	488.8	621.5
47.5°	123.2	146.2	260.0	441.4	571.4
50°	105.6	112.4	208.5	390.0	517.3
52.5°	93.4	96.1	162.5	338.5	463.1
55°	79.9	82.6	125.9	287.1	407.6
57.5°	67.7	69.1	101.6	238.3	348.0
60°	56.9	58.2	89.4	190.9	287.1
62.5°	47.4	48.7	79.9	147.6	228.8
65°	37.9	40.6	67.7	108.3	174.7
67.5°	31.1	36.6	56.9	75.8	121.9
70°	25.7	35.2	46.0	52.8	74.5
72.5°	21.7	32.5	39.3	37.9	36.6
75°	17.6	31.1	32.5	29.8	28.4
77.5°	14.9	27.1	27.1	24.4	23.0
80°	12.2	21.7	21.7	21.7	19.0
82.5°	10.8	17.6	19.0	19.0	14.9
85°	8.1	14.9	16.2	16.2	10.8
87.5°	5.4	13.5	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	7.94	9.28	8.30	9.59	9.91	17.10	18.44	17.47	18.76	19.07
	3H	9.05	10.24	9.42	10.57	10.93	17.61	18.80	17.99	19.13	19.49
	4H	9.56	10.67	9.96	11.02	11.41	17.63	18.74	18.03	19.09	19.47
	6H	10.00	11.02	10.41	11.39	11.78	17.64	18.66	18.05	19.03	19.42
	8H	10.19	11.15	10.62	11.54	11.95	17.64	18.61	18.07	19.00	19.40
	12H	10.37	11.29	10.80	11.67	12.10	17.64	18.57	18.08	18.95	19.38
4H	2H	9.08	10.19	9.48	10.54	10.92	16.99	18.10	17.39	18.45	18.84
	3H	10.42	11.33	10.83	11.73	12.14	17.58	18.49	17.99	18.89	19.30
	4H	11.15	11.97	11.59	12.38	12.83	17.64	18.45	18.08	18.87	19.32
	6H	11.76	12.47	12.23	12.91	13.38	17.72	18.42	18.18	18.86	19.33
	8H	12.00	12.66	12.47	13.11	13.58	17.75	18.40	18.22	18.85	19.32
	12H	12.24	12.82	12.73	13.30	13.78	17.79	18.37	18.27	18.85	19.32
8H	4H	11.62	12.28	12.09	12.72	13.19	17.60	18.26	18.07	18.70	19.17
	6H	12.47	13.01	12.97	13.50	13.99	17.73	18.26	18.23	18.76	19.24
	8H	12.88	13.36	13.40	13.88	14.37	17.81	18.29	18.33	18.81	19.30
	12H	13.30	13.73	13.81	14.22	14.79	17.93	18.36	18.44	18.85	19.42
12H	4H	11.67	12.26	12.16	12.74	13.21	17.57	18.15	18.06	18.63	19.11
	6H	12.60	13.09	13.12	13.60	14.09	17.71	18.19	18.23	18.71	19.20
	8H	13.13	13.55	13.64	14.05	14.62	17.84	18.27	18.36	18.76	19.33