

Scaled data based on original data using
LM-79-2019 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: S124RDR-S1195D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S124RDR-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

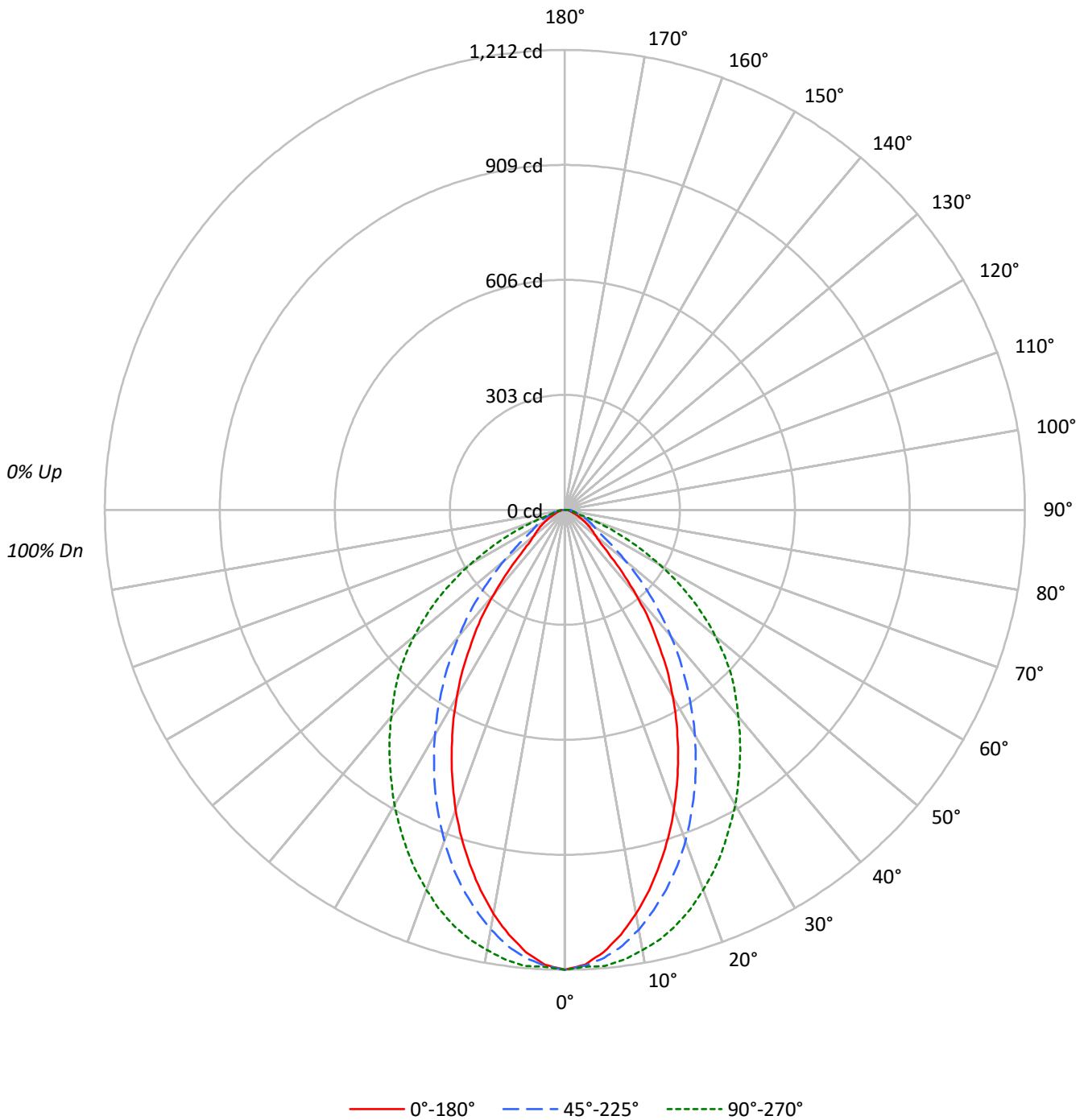
Lumens per Lamp: N/A
Luminaire Lumens: 1715.3 lumens
Efficiency: N/A
Efficacy: 41.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): 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

(END OF REPORT)