

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: P1060506

Luminaire Tested: S124RDR-S575D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-73)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S575D927-X4F0-XX-UDD-WVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

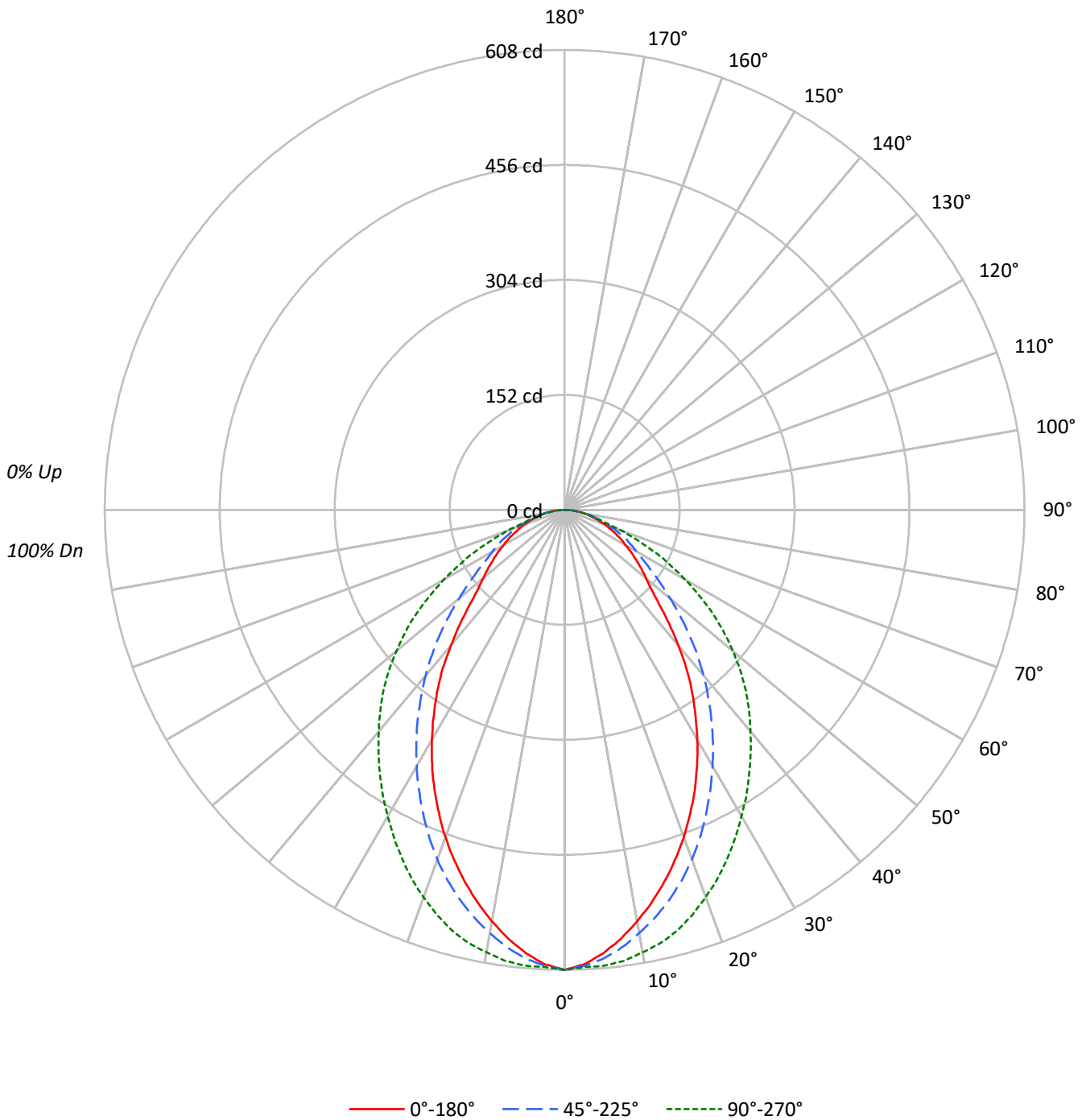
Lumens per Lamp: N/A
Luminaire Lumens: 1115.9 lumens
Efficiency: N/A
Efficacy: 56.9 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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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CATALOG NUMBER: S124RDR-S575D927-X4F0-XX-UDD-WVL-W

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	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	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77				75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67				65	
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59				57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52				50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47				45	
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42				40	
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38				37	
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35				33	
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32				31	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5237	5237	5237
5°	5085	5145	5229
10°	4828	4969	5196
15°	4539	4760	5134
20°	4222	4508	4996
25°	3871	4208	4832
30°	3489	3891	4650
35°	3090	3558	4475
40°	2626	3213	4295
45°	2149	2837	4130
50°	1882	2437	3886
55°	1730	2100	3596
60°	1603	1891	3171
65°	1502	1777	2653
70°	1410	1626	1992
75°	1324	1487	1451
80°	1230	1359	1230
85°	1116	1334	1067

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4130 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	5.0
10°-20°	151.2	13.6
20°-30°	206.7	18.5
30°-40°	217.2	19.5
40°-50°	188.5	16.9
50°-60°	142.2	12.7
60°-70°	92.2	8.3
70°-80°	47.3	4.2
80°-90°	14.3	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°	414.1	37.1
0°-40°	631.4	56.6
0°-60°	962.1	86.2
0°-90°	1115.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1115.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	608	608	608	608	608	
5°	588	596	595	600	605	55
15°	509	522	534	558	576	143
25°	407	422	443	477	509	187
35°	294	310	338	384	426	183
45°	176	193	233	291	339	139
55°	115	118	140	199	240	104
65°	74	75	87	106	130	73
75°	40	45	45	45	44	42
85°	11	14	14	13	11	13
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	608.2	608.2	608.2	608.2	608.2
2.5°	601.2	608.7	603.3	604.4	604.9
5°	588.3	596.3	595.2	600.1	604.9
7.5°	571.6	581.3	583.4	593.1	601.2
10°	552.2	563.0	568.3	583.9	594.2
12.5°	531.7	542.5	552.2	572.1	586.6
15°	509.1	521.5	533.9	558.1	575.9
17.5°	485.5	498.4	514.0	540.4	561.3
20°	460.7	473.6	491.9	520.4	545.2
22.5°	434.3	448.9	468.2	498.9	528.0
25°	407.4	421.9	442.9	476.8	508.6
27.5°	379.4	394.5	417.1	454.8	488.7
30°	350.9	367.1	391.3	431.1	467.7
32.5°	321.8	339.1	364.9	407.4	447.2
35°	293.9	310.0	338.5	383.7	425.7
37.5°	264.8	280.9	311.6	360.6	404.2
40°	233.6	251.3	285.8	336.4	382.1
42.5°	204.5	222.3	259.4	313.2	361.1
45°	176.5	193.2	233.0	291.2	339.1
47.5°	155.0	166.8	206.7	269.6	315.4
50°	140.5	145.9	181.9	246.0	290.1
52.5°	127.6	131.9	159.3	222.3	265.3
55°	115.2	118.4	139.9	198.6	239.5
57.5°	104.4	106.0	122.7	174.9	211.5
60°	93.1	95.3	109.8	150.7	184.1
62.5°	84.0	85.0	98.5	127.6	156.6
65°	73.7	75.3	87.2	105.5	130.2
67.5°	64.6	67.3	75.3	86.1	102.8
70°	56.0	59.7	64.6	70.0	79.1
72.5°	47.9	52.2	54.9	57.0	55.4
75°	39.8	44.7	44.7	45.2	43.6
77.5°	32.3	36.6	36.1	35.5	33.4
80°	24.8	28.5	27.4	26.9	24.8
82.5°	18.3	21.0	19.9	19.4	16.7
85°	11.3	14.0	13.5	12.9	10.8
87.5°	5.4	8.1	7.5	7.0	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)