

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: P1060501

Luminaire Tested: S124RDR-S575D927-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-38)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S575D927-X4F0-XX-UDD-SVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

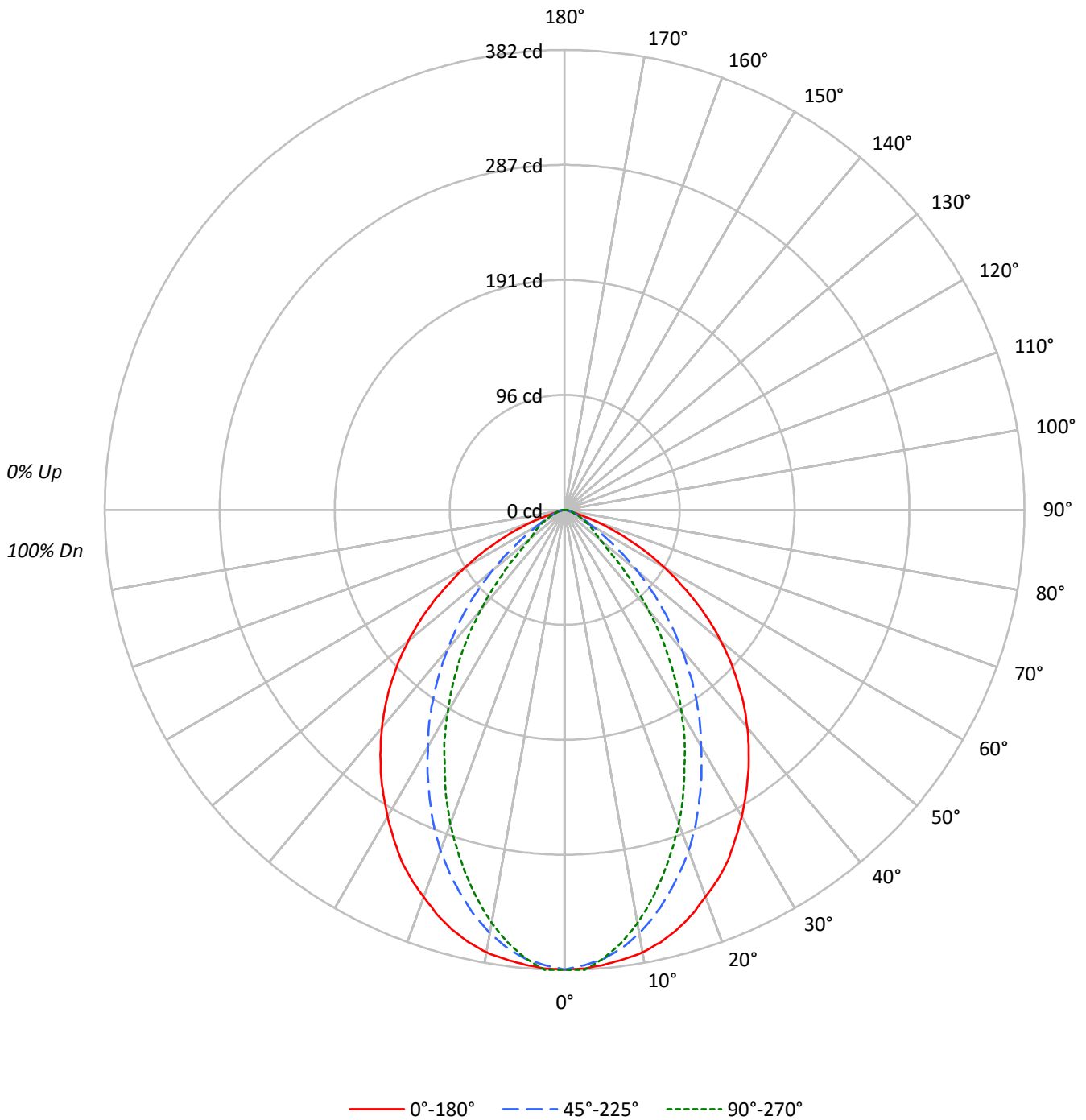
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 563.0 lumens
Efficiency: N/A
Efficacy: 28.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
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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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				
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90				
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71				
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63				
5	84	74	66	61	82	73	66	60	71	65	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	48	47				
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43				
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39				
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3289	3289	3289
5°	3278	3235	3231
10°	3264	3122	3047
15°	3217	2954	2805
20°	3135	2760	2543
25°	3051	2519	2239
30°	2925	2257	1931
35°	2798	1996	1595
40°	2654	1699	1210
45°	2482	1388	812
50°	2269	1052	504
55°	1994	695	428
60°	1648	425	351
65°	1194	328	285
70°	650	244	217
75°	143	180	196
80°	109	134	159
85°	109	109	158

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2482 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.4	6.3
10°-20°	94.0	16.7
20°-30°	124.5	22.1
30°-40°	123.6	21.9
40°-50°	95.1	16.9
50°-60°	56.7	10.1
60°-70°	25.8	4.6
70°-80°	6.7	1.2
80°-90°	1.5	0.3
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°	253.8	45.1
0°-40°	377.4	67.0
0°-60°	529.1	94.0
0°-90°	563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	382	382	382	382	382	
5°	379	380	374	374	374	36
15°	361	352	331	320	315	102
25°	321	298	265	243	236	147
35°	266	233	190	161	152	166
45°	204	164	114	80	67	157
55°	133	95	46	29	28	118
65°	59	35	16	14	14	59
75°	4	5	5	6	6	9
85°	1	1	1	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	381.9	381.9	381.9	381.9	381.9
2.5°	381.3	381.9	378.6	381.3	382.4
5°	379.2	379.7	374.3	374.3	373.8
7.5°	376.5	375.4	366.8	363.6	362.5
10°	373.3	369.5	357.1	350.7	348.5
12.5°	367.9	362.0	345.3	336.1	332.4
15°	360.9	351.7	331.3	320.0	314.6
17.5°	352.3	341.0	316.8	302.3	296.3
20°	342.1	327.0	301.2	282.9	277.5
22.5°	332.4	313.6	284.0	263.0	257.1
25°	321.1	298.0	265.1	243.1	235.6
27.5°	307.6	282.9	246.3	223.7	216.2
30°	294.2	266.8	227.0	203.3	194.2
32.5°	280.2	250.1	209.2	182.3	173.7
35°	266.2	232.9	189.9	160.8	151.7
37.5°	251.2	215.7	170.5	140.4	130.2
40°	236.1	199.0	151.1	120.5	107.6
42.5°	220.5	181.8	132.3	100.0	87.1
45°	203.8	164.0	114.0	79.6	66.7
47.5°	187.2	147.4	95.7	59.7	47.9
50°	169.4	129.6	78.5	43.6	37.6
52.5°	151.7	112.4	61.3	33.9	32.3
55°	132.8	94.7	46.3	29.0	28.5
57.5°	113.5	78.5	33.3	25.3	24.2
60°	95.7	63.5	24.7	21.5	20.4
62.5°	77.4	47.9	20.4	17.7	16.7
65°	58.6	35.0	16.1	14.0	14.0
67.5°	42.5	23.7	12.9	11.3	10.8
70°	25.8	14.5	9.7	9.1	8.6
72.5°	12.9	8.6	7.5	7.0	7.0
75°	4.3	5.4	5.4	5.9	5.9
77.5°	3.2	3.8	3.8	4.3	4.3
80°	2.2	2.7	2.7	3.2	3.2
82.5°	1.6	1.6	2.2	2.2	2.7
85°	1.1	1.1	1.1	1.6	1.6
87.5°	0.5	0.5	0.5	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)