

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: P1060508

Luminaire Tested: S124RDR-S575D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060508  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-78)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S575D930-X4F0-XX-UDD-BVL-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

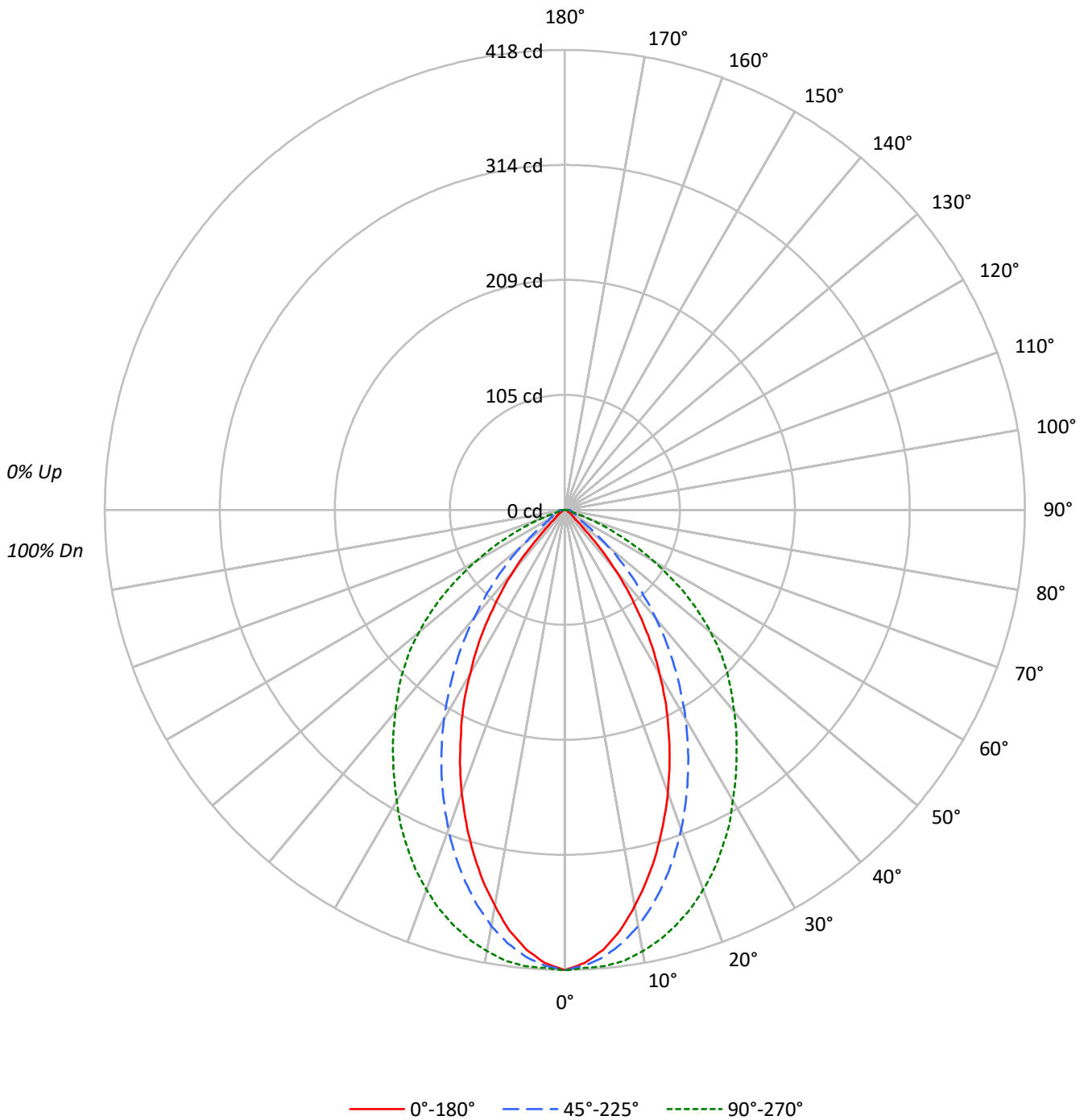
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 525.0 lumens  
Efficiency: N/A  
Efficacy: 26.8 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97  
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	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81				
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73				
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65				
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59				
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54				
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50				
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46				
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42				
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3603	3603	3603
5°	3468	3525	3598
10°	3198	3358	3561
15°	2871	3118	3483
20°	2508	2833	3367
25°	2122	2517	3217
30°	1713	2182	3036
35°	1276	1823	2860
40°	809	1446	2691
45°	324	1059	2538
50°	141	675	2316
55°	108	350	2022
60°	76	239	1603
65°	57	236	1096
70°	55	209	501
75°	73	220	203
80°	109	248	218
85°	217	435	326

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2538 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.3	7.3
10°-20°	98.8	18.8
20°-30°	124.8	23.8
30°-40°	114.6	21.8
40°-50°	78.1	14.9
50°-60°	42.4	8.1
60°-70°	18.0	3.4
70°-80°	6.2	1.2
80°-90°	3.9	0.7
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°	261.8	49.9
0°-40°	376.4	71.7
0°-60°	496.9	94.6
0°-90°	525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	525.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	401	407	408	411	416	37
15°	322	332	350	375	391	90
25°	223	238	265	306	339	102
35°	121	137	173	228	272	75
45°	27	43	87	154	208	24
55°	7	8	23	85	135	6
65°	3	3	12	27	54	3
75°	2	6	7	6	6	2
85°	2	4	4	4	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	418.4	418.4	418.4	418.4	418.4
2.5°	412.3	417.3	414.5	415.6	416.7
5°	401.2	407.3	407.8	411.2	416.2
7.5°	385.7	392.9	397.3	405.6	413.4
10°	365.7	374.6	384.0	397.3	407.3
12.5°	344.7	354.1	367.9	386.8	400.1
15°	322.0	332.5	349.7	374.6	390.7
17.5°	298.1	309.8	330.3	359.6	380.1
20°	273.7	286.5	309.2	342.5	367.4
22.5°	248.8	262.1	287.0	324.7	354.1
25°	223.3	237.7	264.9	305.9	338.6
27.5°	198.9	212.2	242.2	287.0	323.1
30°	172.3	187.3	219.4	267.6	305.3
32.5°	148.0	162.4	196.2	247.7	288.7
35°	121.4	137.4	173.4	227.7	272.1
37.5°	96.4	111.9	151.3	208.9	256.0
40°	72.0	88.1	128.6	190.1	239.4
42.5°	48.2	65.4	106.9	170.7	223.9
45°	26.6	42.7	87.0	154.0	208.4
47.5°	13.9	23.3	68.2	137.4	191.7
50°	10.5	12.7	50.4	119.1	172.9
52.5°	8.9	9.4	34.4	100.9	154.0
55°	7.2	7.8	23.3	84.8	134.7
57.5°	5.5	6.1	16.6	69.3	113.0
60°	4.4	5.0	13.9	53.2	93.1
62.5°	3.3	3.9	13.3	39.3	73.1
65°	2.8	3.3	11.6	26.6	53.8
67.5°	2.2	3.3	10.0	17.2	36.0
70°	2.2	4.4	8.3	11.1	19.9
72.5°	2.2	5.0	7.2	7.2	7.2
75°	2.2	6.1	6.6	6.1	6.1
77.5°	2.2	5.5	5.5	5.5	5.5
80°	2.2	5.0	5.0	5.0	4.4
82.5°	2.2	4.4	5.0	5.0	3.9
85°	2.2	4.4	4.4	4.4	3.3
87.5°	1.7	4.4	4.4	4.4	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)