

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: P1060476

Luminaire Tested: S124RDR-S575D835-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060476  
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-S575D835-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

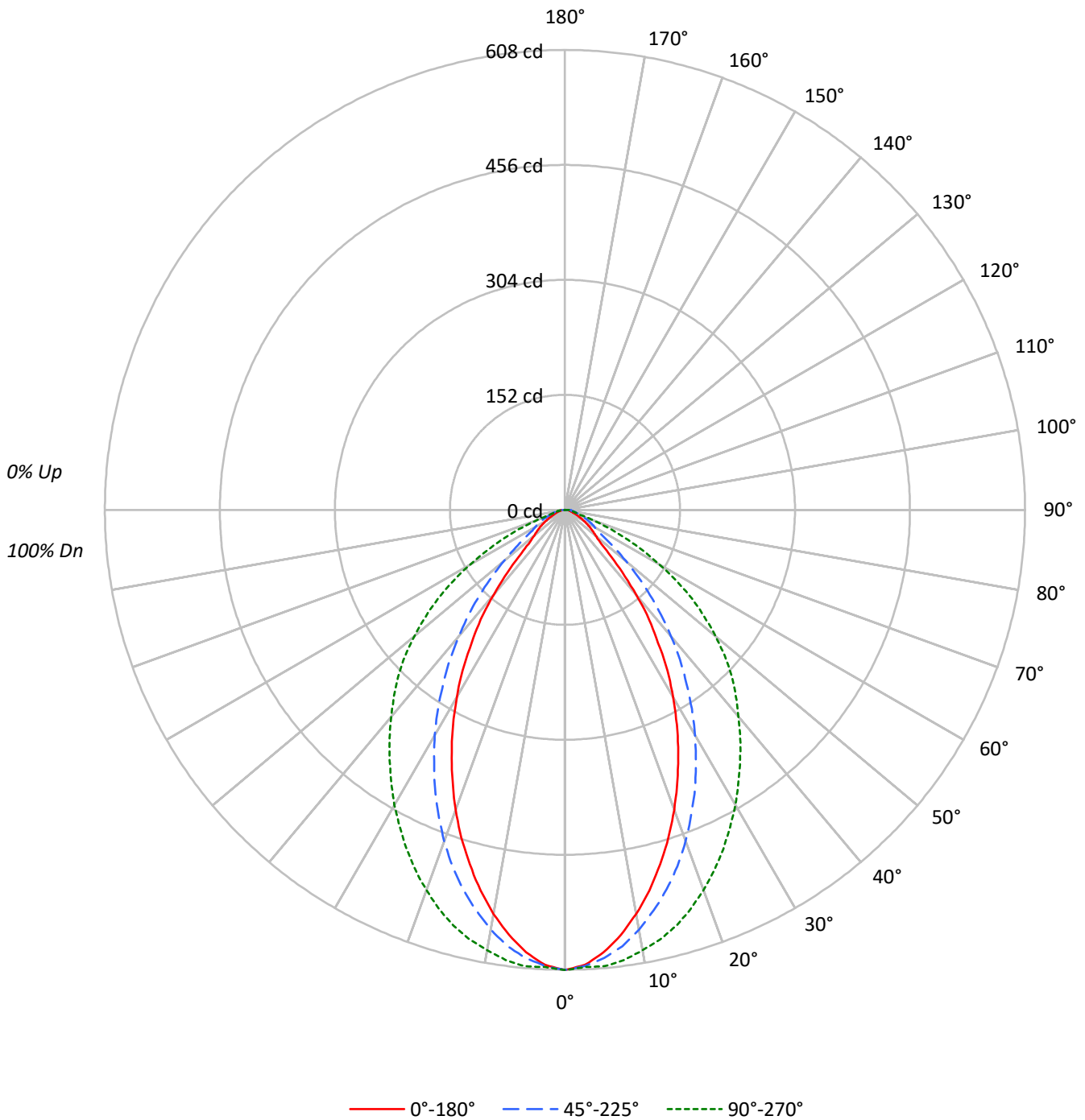
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 861.0 lumens  
Efficiency: N/A  
Efficacy: 43.9 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): 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				100
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63				63
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57				57
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51				51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47				47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43				43
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36				36

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

	0°	45°	90°
0°	5238	5238	5238
5°	5076	5141	5235
10°	4743	4926	5170
15°	4326	4630	5072
20°	3868	4272	4902
25°	3364	3861	4701
30°	2839	3419	4480
35°	2258	2943	4244
40°	1642	2453	4011
45°	994	1936	3800
50°	710	1403	3478
55°	602	949	3072
60°	491	773	2482
65°	387	693	1787
70°	325	582	942
75°	293	542	476
80°	302	541	471
85°	405	810	534

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3800 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.0	6.5
10°-20°	146.8	17.0
20°-30°	190.3	22.1
30°-40°	183.2	21.3
40°-50°	136.3	15.8
50°-60°	83.8	9.7
60°-70°	41.2	4.8
70°-80°	16.1	1.9
80°-90°	7.3	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°	393.1	45.7
0°-40°	576.3	66.9
0°-60°	796.4	92.5
0°-90°	861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	861.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	608	608	608	608	608	
5°	587	596	595	600	606	55
15°	485	501	519	550	569	136
25°	354	373	406	457	495	162
35°	215	235	280	350	404	134
45°	82	101	159	245	312	68
55°	40	42	63	144	205	36
65°	19	20	34	54	88	20
75°	9	16	16	15	14	10
85°	4	8	8	8	5	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	608.3	608.3	608.3	608.3	608.3
2.5°	602.2	609.0	603.5	604.2	604.9
5°	587.2	596.1	594.7	600.1	605.6
7.5°	566.8	577.0	581.8	592.7	600.1
10°	542.4	553.9	563.4	581.1	591.3
12.5°	515.2	528.8	542.4	566.2	581.8
15°	485.3	500.9	519.3	550.5	568.9
17.5°	454.7	470.3	494.1	530.1	553.2
20°	422.1	439.1	466.2	506.3	534.9
22.5°	388.1	406.4	436.3	481.9	515.9
25°	354.1	373.1	406.4	457.4	494.8
27.5°	320.1	338.5	374.5	431.6	472.4
30°	285.5	304.5	343.9	403.7	450.6
32.5°	252.2	269.8	312.0	377.2	426.8
35°	214.8	235.2	280.0	350.0	403.7
37.5°	182.8	201.2	249.4	322.8	380.6
40°	146.1	166.5	218.2	296.3	356.8
42.5°	112.1	132.5	188.3	269.8	334.4
45°	81.6	101.3	159.0	245.4	312.0
47.5°	61.8	73.4	130.5	221.6	286.8
50°	53.0	56.4	104.7	195.7	259.6
52.5°	46.9	48.3	81.6	169.9	232.4
55°	40.1	41.5	63.2	144.1	204.6
57.5°	34.0	34.7	51.0	119.6	174.7
60°	28.5	29.2	44.9	95.8	144.1
62.5°	23.8	24.5	40.1	74.1	114.9
65°	19.0	20.4	34.0	54.4	87.7
67.5°	15.6	18.4	28.5	38.1	61.2
70°	12.9	17.7	23.1	26.5	37.4
72.5°	10.9	16.3	19.7	19.0	18.4
75°	8.8	15.6	16.3	15.0	14.3
77.5°	7.5	13.6	13.6	12.2	11.6
80°	6.1	10.9	10.9	10.9	9.5
82.5°	5.4	8.8	9.5	9.5	7.5
85°	4.1	7.5	8.2	8.2	5.4
87.5°	2.7	6.8	7.5	6.8	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)