

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: P1060555

Luminaire Tested: S124RDR-S795D835-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060555  
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-S795D835-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

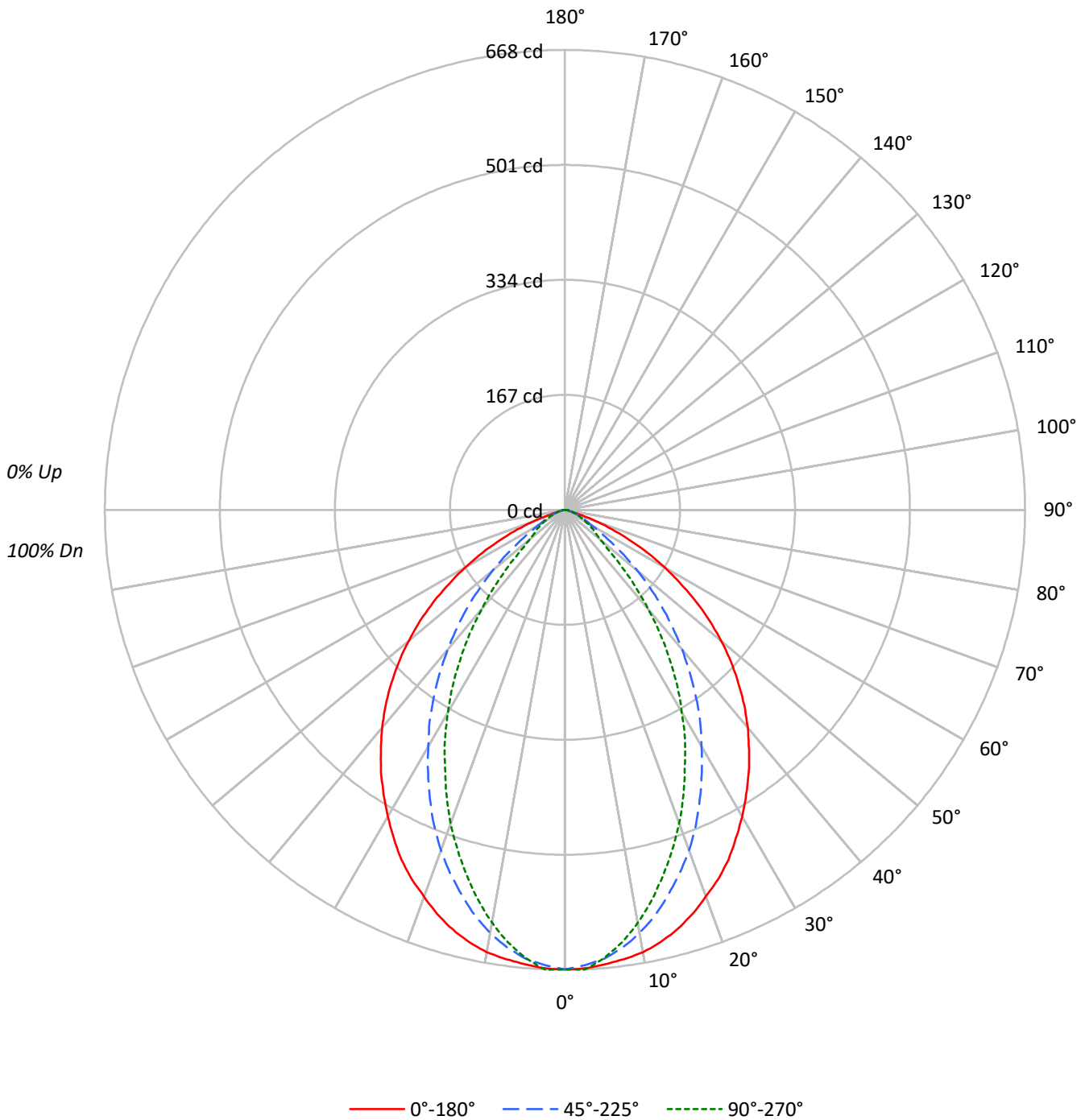
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 984.1 lumens  
Efficiency: N/A  
Efficacy: 38.1 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): 25.8  
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	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°	5748	5748	5748
5°	5729	5656	5648
10°	5705	5459	5327
15°	5624	5163	4903
20°	5479	4825	4445
25°	5333	4404	3913
30°	5114	3944	3375
35°	4892	3489	2787
40°	4639	2970	2113
45°	4339	2427	1420
50°	3967	1839	881
55°	3486	1215	748
60°	2881	744	615
65°	2089	575	497
70°	1135	425	378
75°	250	313	343
80°	188	233	278
85°	188	188	277

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4339 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.8	6.3
10°-20°	164.3	16.7
20°-30°	217.6	22.1
30°-40°	216.0	21.9
40°-50°	166.2	16.9
50°-60°	99.1	10.1
60°-70°	45.0	4.6
70°-80°	11.6	1.2
80°-90°	2.6	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°	443.7	45.1
0°-40°	659.6	67.0
0°-60°	924.9	94.0
0°-90°	984.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	984.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	663	664	654	654	653	63
15°	631	615	579	559	550	177
25°	561	521	464	425	412	258
35°	465	407	332	281	265	291
45°	356	287	199	139	117	274
55°	232	166	81	51	50	207
65°	102	61	28	24	24	103
75°	8	9	9	10	10	16
85°	2	2	2	3	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	667.5	667.5	667.5	667.5	667.5
2.5°	666.6	667.5	661.9	666.6	668.4
5°	662.8	663.7	654.3	654.3	653.4
7.5°	658.1	656.2	641.2	635.5	633.7
10°	652.5	645.9	624.3	613.0	609.2
12.5°	643.1	632.7	603.6	587.6	581.0
15°	630.8	614.9	579.1	559.4	550.0
17.5°	615.8	596.1	553.7	528.4	518.0
20°	597.9	571.6	526.5	494.5	485.1
22.5°	581.0	548.1	496.4	459.7	449.4
25°	561.3	520.8	463.5	424.9	411.8
27.5°	537.8	494.5	430.6	391.1	377.9
30°	514.3	466.3	396.7	355.4	339.4
32.5°	489.8	437.2	365.7	318.7	303.7
35°	465.4	407.1	331.9	281.1	265.1
37.5°	439.0	377.0	298.0	245.4	227.5
40°	412.7	347.9	264.2	210.6	188.0
42.5°	385.5	317.8	231.3	174.9	152.3
45°	356.3	286.7	199.3	139.1	116.6
47.5°	327.2	257.6	167.3	104.4	83.7
50°	296.1	226.6	137.3	76.2	65.8
52.5°	265.1	196.5	107.2	59.2	56.4
55°	232.2	165.5	80.9	50.8	49.8
57.5°	198.4	137.3	58.3	44.2	42.3
60°	167.3	110.9	43.2	37.6	35.7
62.5°	135.4	83.7	35.7	31.0	29.1
65°	102.5	61.1	28.2	24.4	24.4
67.5°	74.3	41.4	22.6	19.7	18.8
70°	45.1	25.4	16.9	16.0	15.0
72.5°	22.6	15.0	13.2	12.2	12.2
75°	7.5	9.4	9.4	10.3	10.3
77.5°	5.6	6.6	6.6	7.5	7.5
80°	3.8	4.7	4.7	5.6	5.6
82.5°	2.8	2.8	3.8	3.8	4.7
85°	1.9	1.9	1.9	2.8	2.8
87.5°	0.9	0.9	0.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)