

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: P1060582

Luminaire Tested: S124RDR-S795D927-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060582
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-S795D927-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

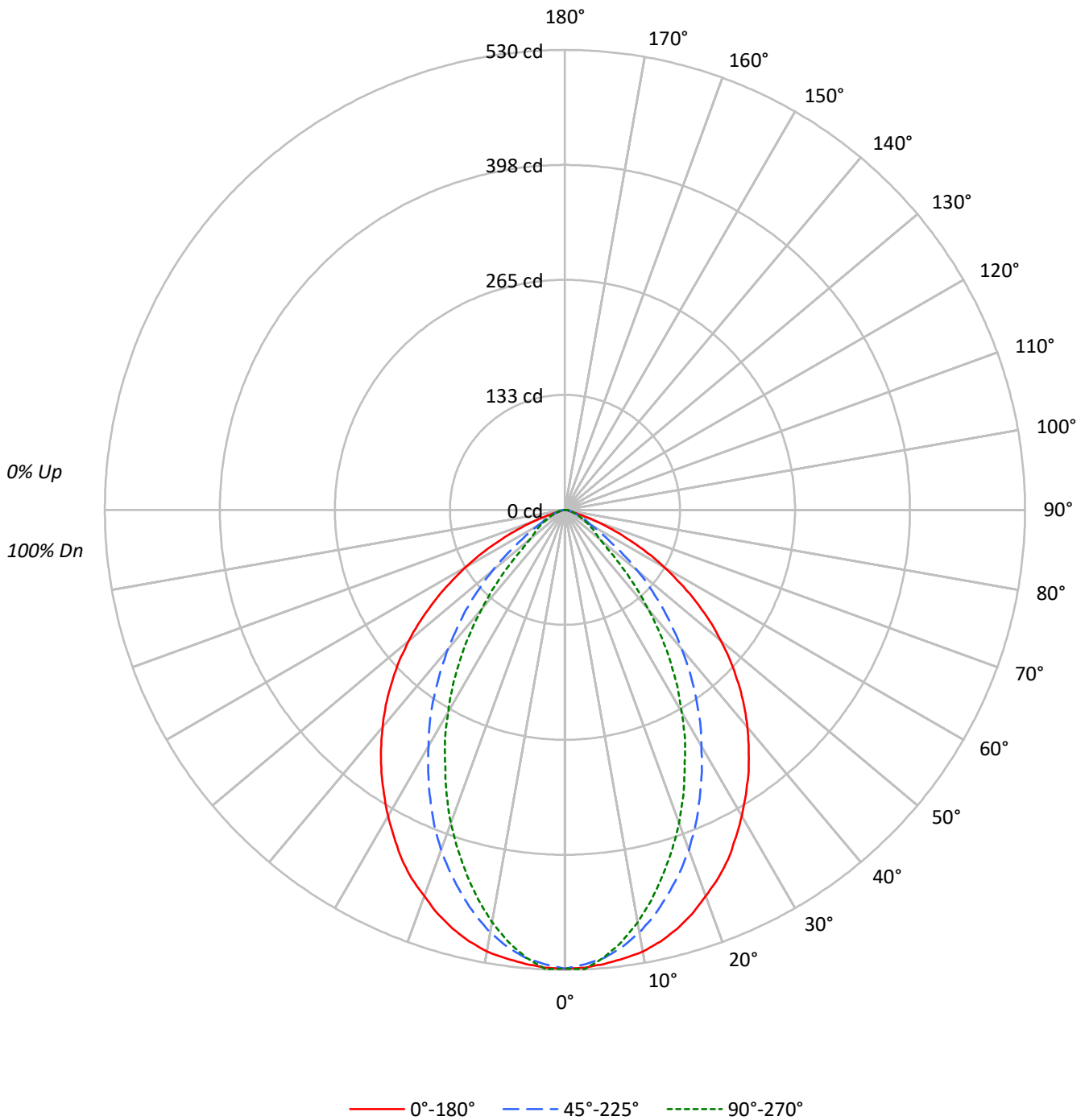
Lumens per Lamp: N/A
Luminaire Lumens: 779.6 lumens
Efficiency: N/A
Efficacy: 30.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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°	4554	4554	4554
5°	4539	4481	4474
10°	4520	4324	4220
15°	4455	4090	3884
20°	4341	3822	3522
25°	4224	3489	3099
30°	4051	3125	2674
35°	3876	2764	2208
40°	3676	2353	1675
45°	3438	1923	1125
50°	3143	1456	698
55°	2762	961	593
60°	2284	591	487
65°	1655	454	395
70°	899	337	300
75°	200	246	273
80°	149	183	223
85°	148	148	217

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3438 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	6.3
10°-20°	130.1	16.7
20°-30°	172.4	22.1
30°-40°	171.1	21.9
40°-50°	131.7	16.9
50°-60°	78.5	10.1
60°-70°	35.7	4.6
70°-80°	9.2	1.2
80°-90°	2.0	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°	351.5	45.1
0°-40°	522.6	67.0
0°-60°	732.7	94.0
0°-90°	779.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	779.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	529	529	529	529	529	
5°	525	526	518	518	518	50
15°	500	487	459	443	436	141
25°	445	413	367	337	326	204
35°	369	322	263	223	210	230
45°	282	227	158	110	92	217
55°	184	131	64	40	40	164
65°	81	48	22	19	19	82
75°	6	7	7	8	8	13
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	528.8	528.8	528.8	528.8	528.8
2.5°	528.0	528.8	524.3	528.0	529.5
5°	525.1	525.8	518.4	518.4	517.6
7.5°	521.3	519.8	507.9	503.5	502.0
10°	516.9	511.7	494.5	485.6	482.6
12.5°	509.4	501.2	478.1	465.5	460.3
15°	499.7	487.1	458.8	443.1	435.7
17.5°	487.8	472.2	438.7	418.6	410.4
20°	473.7	452.8	417.1	391.7	384.3
22.5°	460.3	434.2	393.2	364.2	356.0
25°	444.6	412.6	367.2	336.6	326.2
27.5°	426.0	391.7	341.1	309.8	299.4
30°	407.4	369.4	314.3	281.5	268.9
32.5°	388.0	346.3	289.7	252.5	240.6
35°	368.7	322.5	262.9	222.7	210.0
37.5°	347.8	298.7	236.1	194.4	180.2
40°	327.0	275.6	209.3	166.8	149.0
42.5°	305.4	251.7	183.2	138.5	120.7
45°	282.3	227.2	157.9	110.2	92.4
47.5°	259.2	204.1	132.6	82.7	66.3
50°	234.6	179.5	108.7	60.3	52.1
52.5°	210.0	155.7	84.9	46.9	44.7
55°	184.0	131.1	64.0	40.2	39.5
57.5°	157.1	108.7	46.2	35.0	33.5
60°	132.6	87.9	34.3	29.8	28.3
62.5°	107.2	66.3	28.3	24.6	23.1
65°	81.2	48.4	22.3	19.4	19.4
67.5°	58.8	32.8	17.9	15.6	14.9
70°	35.7	20.1	13.4	12.7	11.9
72.5°	17.9	11.9	10.4	9.7	9.7
75°	6.0	7.4	7.4	8.2	8.2
77.5°	4.5	5.2	5.2	6.0	6.0
80°	3.0	3.7	3.7	4.5	4.5
82.5°	2.2	2.2	3.0	3.0	3.7
85°	1.5	1.5	1.5	2.2	2.2
87.5°	0.7	0.7	0.7	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)