

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: P1060354

Luminaire Tested: S124RDR-S1195D935-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-39)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D935-X4F0-XX-UDD-BVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

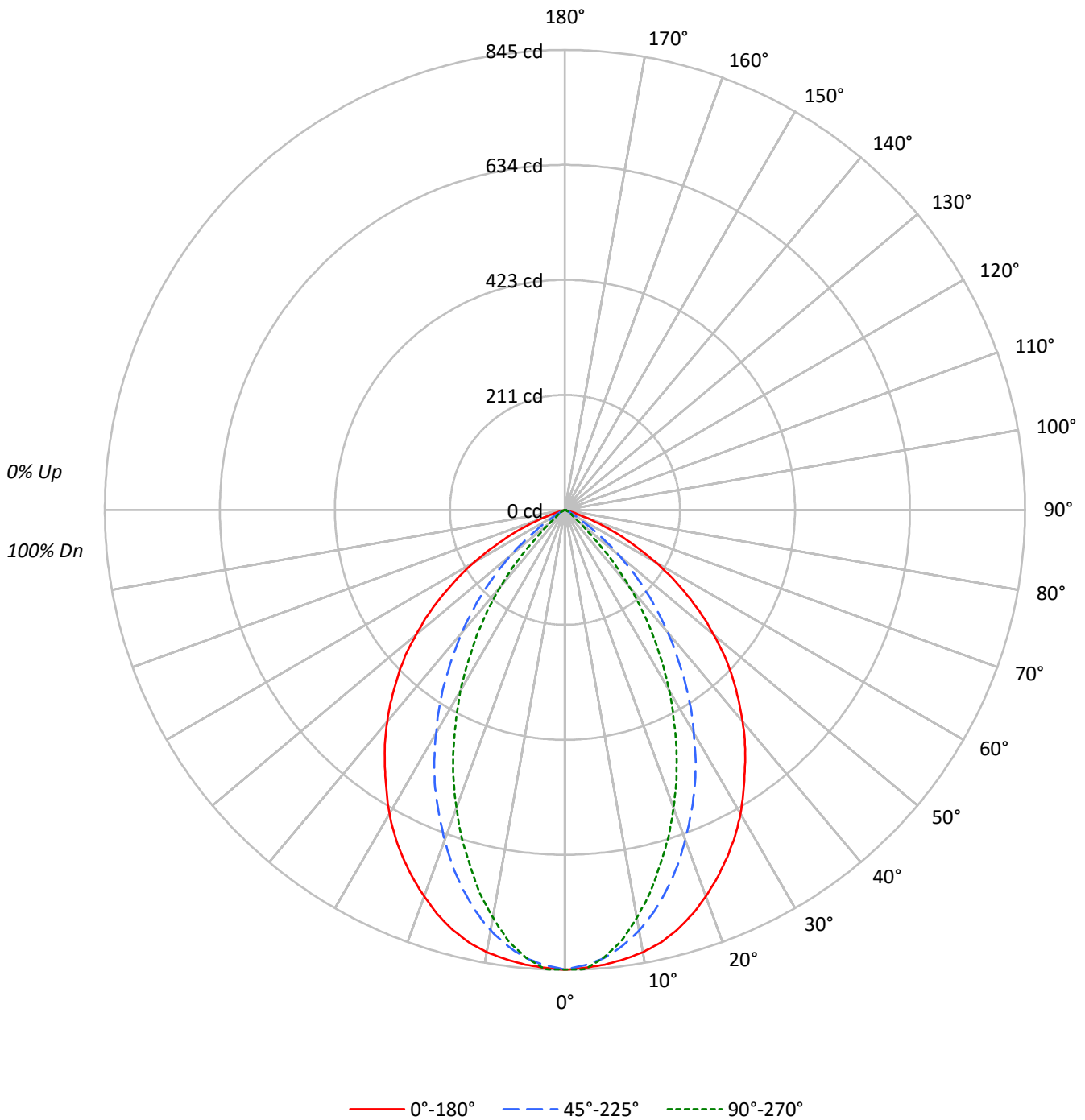
Lumens per Lamp: N/A
Luminaire Lumens: 1103.1 lumens
Efficiency: N/A
Efficacy: 26.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.83 / 0.98
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	109	106	103	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	105	99	95	90	103	98	93	89	94	91	87		91	88	86		88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78		84	80	77		82	78	75	74
4	92	83	76	71	90	82	76	71	79	74	70		77	73	69		75	71	68	66
5	86	76	69	64	84	75	69	64	73	67	63		71	66	62		70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57		66	61	57		65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52		61	56	52		60	55	52	50
8	71	60	53	48	70	60	53	48	58	52	48		57	52	48		56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44		54	48	44		53	48	44	42
10	64	52	46	41	63	52	45	41	51	45	41		50	45	41		49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7275	7275	7275
5°	7250	7144	7134
10°	7216	6864	6651
15°	7118	6443	6018
20°	6925	5918	5336
25°	6693	5359	4605
30°	6409	4698	3811
35°	6057	4029	2964
40°	5709	3307	2072
45°	5293	2543	1025
50°	4776	1717	343
55°	4124	880	239
60°	3302	315	169
65°	2264	173	75
70°	1015	93	60
75°	0	40	40
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5293 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	7.1
10°-20°	204.5	18.5
20°-30°	264.7	24.0
30°-40°	251.5	22.8
40°-50°	178.1	16.1
50°-60°	91.4	8.3
60°-70°	32.0	2.9
70°-80°	2.8	0.2
80°-90°	0.0	0.0
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°	547.3	49.6
0°-40°	798.8	72.4
0°-60°	1068.4	96.9
0°-90°	1103.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1103.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	845	845	845	845	845	
5°	839	840	826	826	825	80
15°	798	774	723	688	675	224
25°	704	650	564	504	485	324
35°	576	492	383	309	282	361
45°	435	334	209	120	84	335
55°	275	181	59	17	16	245
65°	111	54	8	5	4	111
75°	0	1	1	1	1	9
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	844.8	844.8	844.8	844.8	844.8
2.5°	842.4	844.8	837.5	843.6	844.8
5°	838.7	839.9	826.5	826.5	825.3
7.5°	832.6	830.2	808.2	799.6	798.4
10°	825.3	816.7	785.0	766.7	760.6
12.5°	814.3	798.4	755.7	728.8	721.5
15°	798.4	774.0	722.7	688.5	675.1
17.5°	778.9	747.1	686.1	644.6	631.2
20°	755.7	715.4	645.8	599.4	582.3
22.5°	731.3	684.9	604.3	551.8	534.7
25°	704.4	649.5	564.0	504.2	484.7
27.5°	676.3	611.6	520.1	457.8	432.2
30°	644.6	573.8	472.5	407.8	383.3
32.5°	610.4	532.3	429.7	360.1	330.8
35°	576.2	492.0	383.3	308.9	282.0
37.5°	543.3	454.1	336.9	258.8	233.2
40°	507.9	412.6	294.2	213.6	184.3
42.5°	471.2	372.3	250.3	167.3	135.5
45°	434.6	334.5	208.8	119.6	84.2
47.5°	398.0	294.2	168.5	75.7	45.2
50°	356.5	255.1	128.2	40.3	25.6
52.5°	317.4	218.5	91.6	23.2	19.5
55°	274.7	180.7	58.6	17.1	15.9
57.5°	234.4	144.1	33.0	13.4	12.2
60°	191.7	111.1	18.3	11.0	9.8
62.5°	148.9	80.6	12.2	7.3	6.1
65°	111.1	53.7	8.5	4.9	3.7
67.5°	73.2	30.5	6.1	2.4	2.4
70°	40.3	14.6	3.7	2.4	2.4
72.5°	14.6	4.9	2.4	1.2	1.2
75°	0.0	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	1.2
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)