

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: P1060338

Luminaire Tested: S124RDR-S1195D927-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-75)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D927-X4F0-XX-UDD-BVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

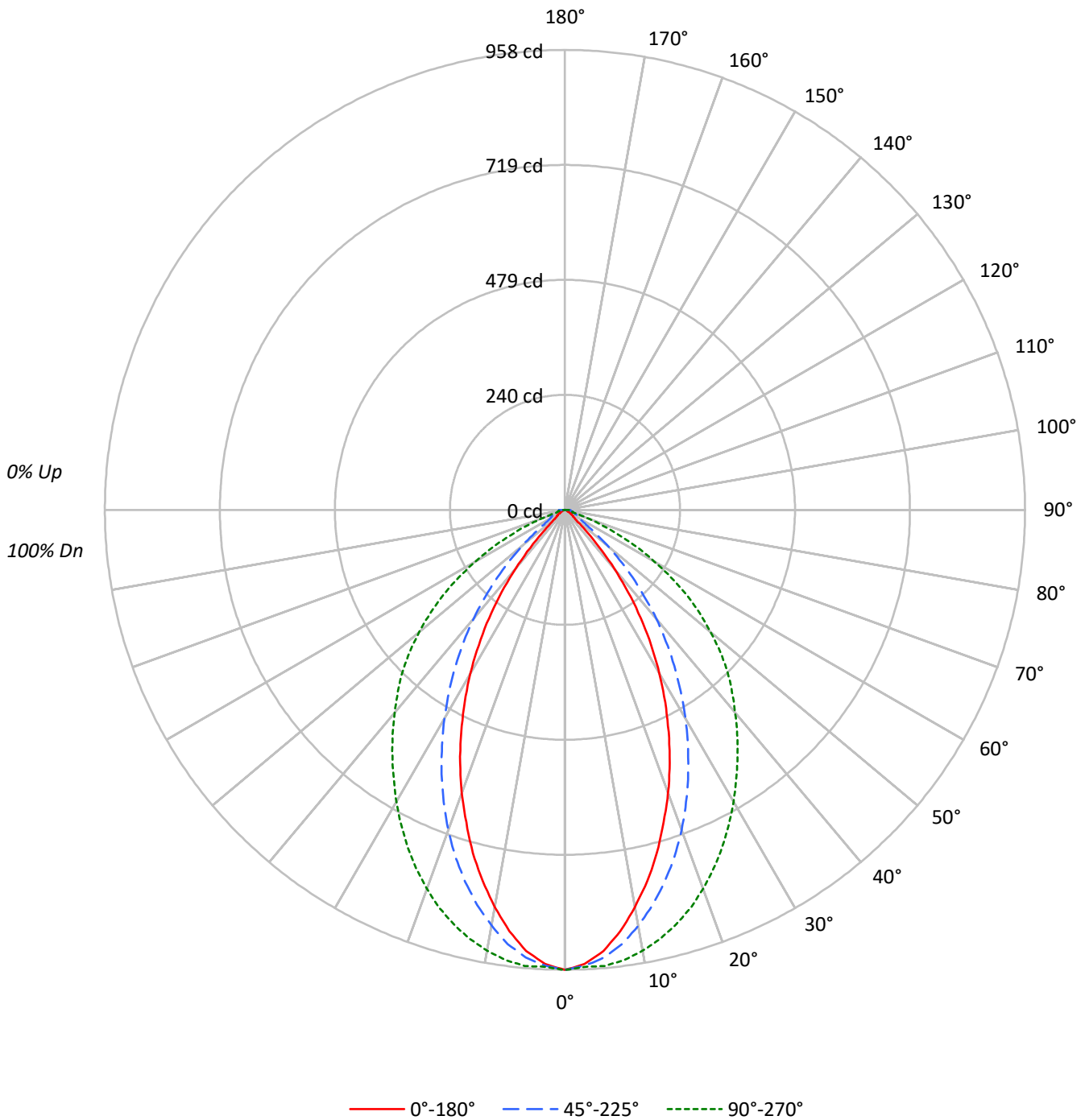
Lumens per Lamp: N/A
Luminaire Lumens: 1207.7 lumens
Efficiency: N/A
Efficacy: 28.9 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	91	82	75	70	89	81	75	70	79	73	69	76	72	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	48	57	51	47	56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8251	8251	8251
5°	7972	8088	8244
10°	7346	7690	8153
15°	6598	7149	7971
20°	5751	6504	7698
25°	4851	5770	7363
30°	3914	4988	6978
35°	2897	4173	6586
40°	1795	3325	6195
45°	712	2425	5834
50°	316	1522	5304
55°	254	794	4644
60°	174	601	3699
65°	114	595	2543
70°	113	539	1188
75°	150	522	522
80°	223	615	615
85°	445	1225	889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5834 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	7.3
10°-20°	226.9	18.8
20°-30°	286.4	23.7
30°-40°	262.7	21.8
40°-50°	178.9	14.8
50°-60°	97.5	8.1
60°-70°	42.2	3.5
70°-80°	15.4	1.3
80°-90°	9.9	0.8
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°	601.1	49.8
0°-40°	863.8	71.5
0°-60°	1140.2	94.4
0°-90°	1207.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1207.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	922	935	936	946	954	85
15°	740	766	802	859	894	206
25°	511	547	607	704	775	233
35°	276	316	397	523	626	170
45°	58	98	199	353	479	54
55°	17	18	53	195	309	15
65°	6	8	29	61	125	7
75°	4	15	16	16	16	5
85°	4	10	12	12	9	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.2	958.2	958.2	958.2	958.2
2.5°	947.0	958.2	950.4	952.6	952.6
5°	922.3	934.6	935.7	945.9	953.7
7.5°	885.1	903.1	912.1	932.4	945.9
10°	840.1	861.5	879.5	914.4	932.4
12.5°	791.8	816.5	843.5	889.6	915.5
15°	740.1	765.9	801.9	859.3	894.1
17.5°	682.7	714.2	758.0	826.7	869.4
20°	627.6	659.1	709.7	787.3	840.1
22.5°	570.2	602.8	659.1	745.7	808.7
25°	510.6	546.6	607.3	704.1	774.9
27.5°	452.1	490.4	554.5	660.2	738.9
30°	393.6	431.9	501.6	615.2	701.8
32.5°	334.0	373.4	448.8	568.0	663.6
35°	275.6	316.0	397.0	523.0	626.5
37.5°	215.9	258.7	345.3	479.1	589.3
40°	159.7	202.4	295.8	435.3	551.1
42.5°	106.8	149.6	245.2	392.5	515.1
45°	58.5	97.8	199.1	353.2	479.1
47.5°	31.5	54.0	154.1	314.9	438.6
50°	23.6	29.2	113.6	274.4	395.9
52.5°	20.2	22.5	78.7	231.7	353.2
55°	16.9	18.0	52.9	194.6	309.3
57.5°	13.5	14.6	39.4	157.5	262.1
60°	10.1	12.4	34.9	121.5	214.8
62.5°	7.9	10.1	32.6	88.9	169.8
65°	5.6	7.9	29.2	60.7	124.8
67.5°	5.6	9.0	24.7	39.4	84.4
70°	4.5	12.4	21.4	25.9	47.2
72.5°	4.5	13.5	18.0	18.0	18.0
75°	4.5	14.6	15.7	15.7	15.7
77.5°	4.5	13.5	14.6	13.5	13.5
80°	4.5	12.4	12.4	12.4	12.4
82.5°	4.5	11.2	12.4	12.4	10.1
85°	4.5	10.1	12.4	12.4	9.0
87.5°	3.4	10.1	11.2	11.2	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)