

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: P1060366

Luminaire Tested: S124RDR-S1195D940-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060366
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-S1195D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

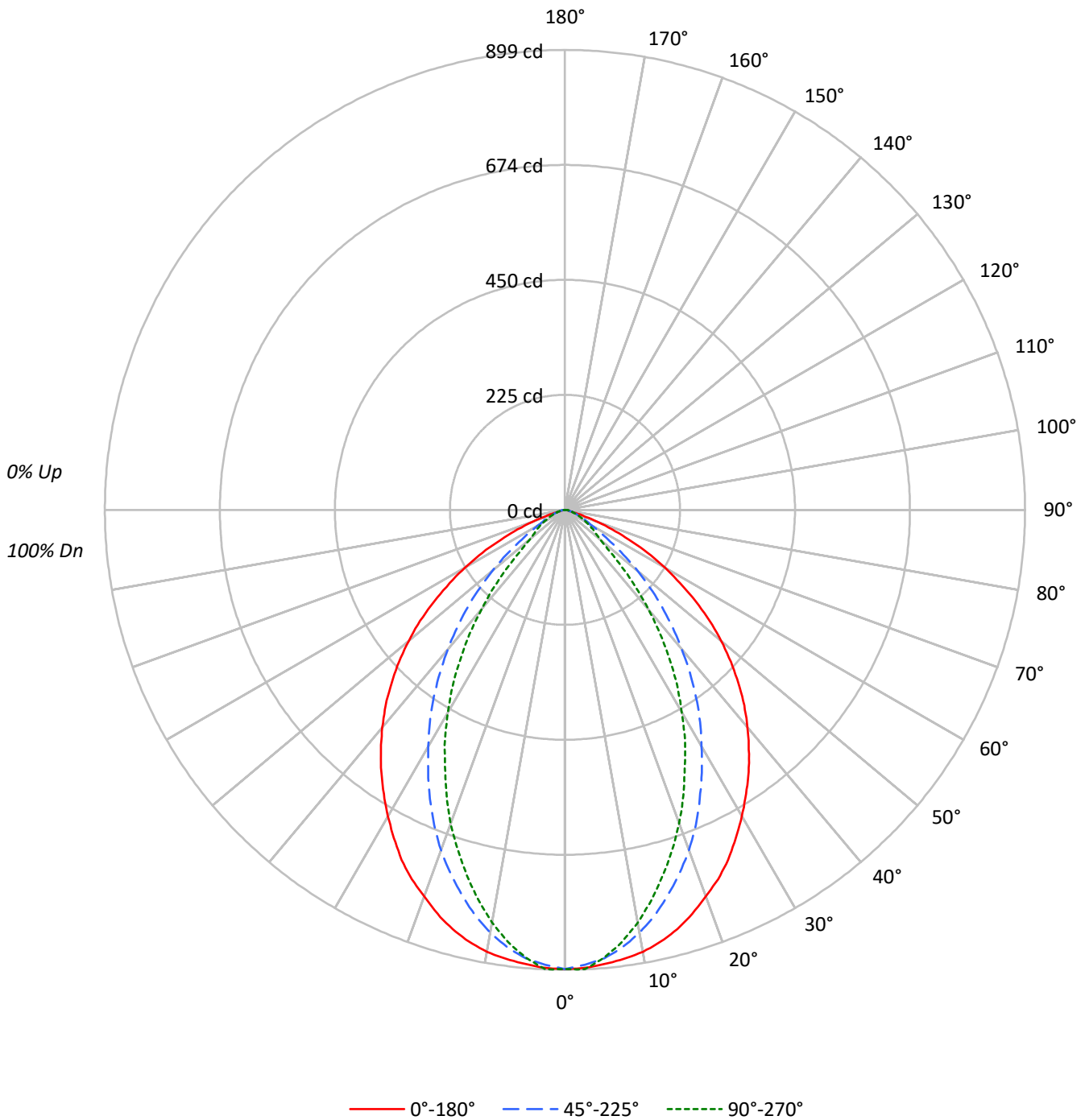
Lumens per Lamp: N/A
Luminaire Lumens: 1323.5 lumens
Efficiency: N/A
Efficacy: 31.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	7730	7730	7730
5°	7705	7607	7596
10°	7673	7341	7164
15°	7563	6943	6593
20°	7369	6488	5978
25°	7172	5922	5262
30°	6877	5306	4538
35°	6579	4692	3748
40°	6239	3994	2843
45°	5836	3264	1910
50°	5336	2473	1186
55°	4689	1632	1006
60°	3877	1002	827
65°	2808	772	670
70°	1528	574	509
75°	336	419	462
80°	253	312	377
85°	247	247	375

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5836 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	6.3
10°-20°	220.9	16.7
20°-30°	292.6	22.1
30°-40°	290.4	21.9
40°-50°	223.5	16.9
50°-60°	133.2	10.1
60°-70°	60.5	4.6
70°-80°	15.7	1.2
80°-90°	3.5	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°	596.7	45.1
0°-40°	887.1	67.0
0°-60°	1243.8	94.0
0°-90°	1323.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1323.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	898	898	898	898	898	
5°	891	893	880	880	879	85
15°	848	827	779	752	740	239
25°	755	700	623	572	554	346
35°	626	548	446	378	356	391
45°	479	386	268	187	157	369
55°	312	222	109	68	67	278
65°	138	82	38	33	33	139
75°	10	13	13	14	14	21
85°	2	2	2	4	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	897.7	897.7	897.7	897.7	897.7
2.5°	896.4	897.7	890.1	896.4	898.9
5°	891.4	892.6	880.0	880.0	878.7
7.5°	885.0	882.5	862.3	854.7	852.2
10°	877.5	868.6	839.5	824.4	819.3
12.5°	864.8	850.9	811.7	790.2	781.4
15°	848.4	826.9	778.8	752.3	739.6
17.5°	828.1	801.6	744.7	710.6	696.7
20°	804.1	768.7	708.0	665.0	652.4
22.5°	781.4	737.1	667.6	618.3	604.4
25°	754.8	700.4	623.3	571.5	553.8
27.5°	723.2	665.0	579.1	526.0	508.3
30°	691.6	627.1	533.6	477.9	456.4
32.5°	658.7	587.9	491.8	428.6	408.4
35°	625.8	547.5	446.3	378.0	356.5
37.5°	590.4	507.0	400.8	330.0	306.0
40°	555.0	467.8	355.3	283.2	252.9
42.5°	518.4	427.3	311.0	235.2	204.8
45°	479.2	385.6	268.0	187.1	156.8
47.5°	440.0	346.4	225.1	140.3	112.5
50°	398.3	304.7	184.6	102.4	88.5
52.5°	356.5	264.2	144.1	79.7	75.9
55°	312.3	222.5	108.7	68.3	67.0
57.5°	266.8	184.6	78.4	59.4	56.9
60°	225.1	149.2	58.2	50.6	48.0
62.5°	182.1	112.5	48.0	41.7	39.2
65°	137.8	82.2	37.9	32.9	32.9
67.5°	99.9	55.6	30.3	26.6	25.3
70°	60.7	34.1	22.8	21.5	20.2
72.5°	30.3	20.2	17.7	16.4	16.4
75°	10.1	12.6	12.6	13.9	13.9
77.5°	7.6	8.9	8.9	10.1	10.1
80°	5.1	6.3	6.3	7.6	7.6
82.5°	3.8	3.8	5.1	5.1	6.3
85°	2.5	2.5	2.5	3.8	3.8
87.5°	1.3	1.3	1.3	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)