

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: P1060364

Luminaire Tested: S124RDR-S1195D940-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-78)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D940-X4F0-XX-UDD-BVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

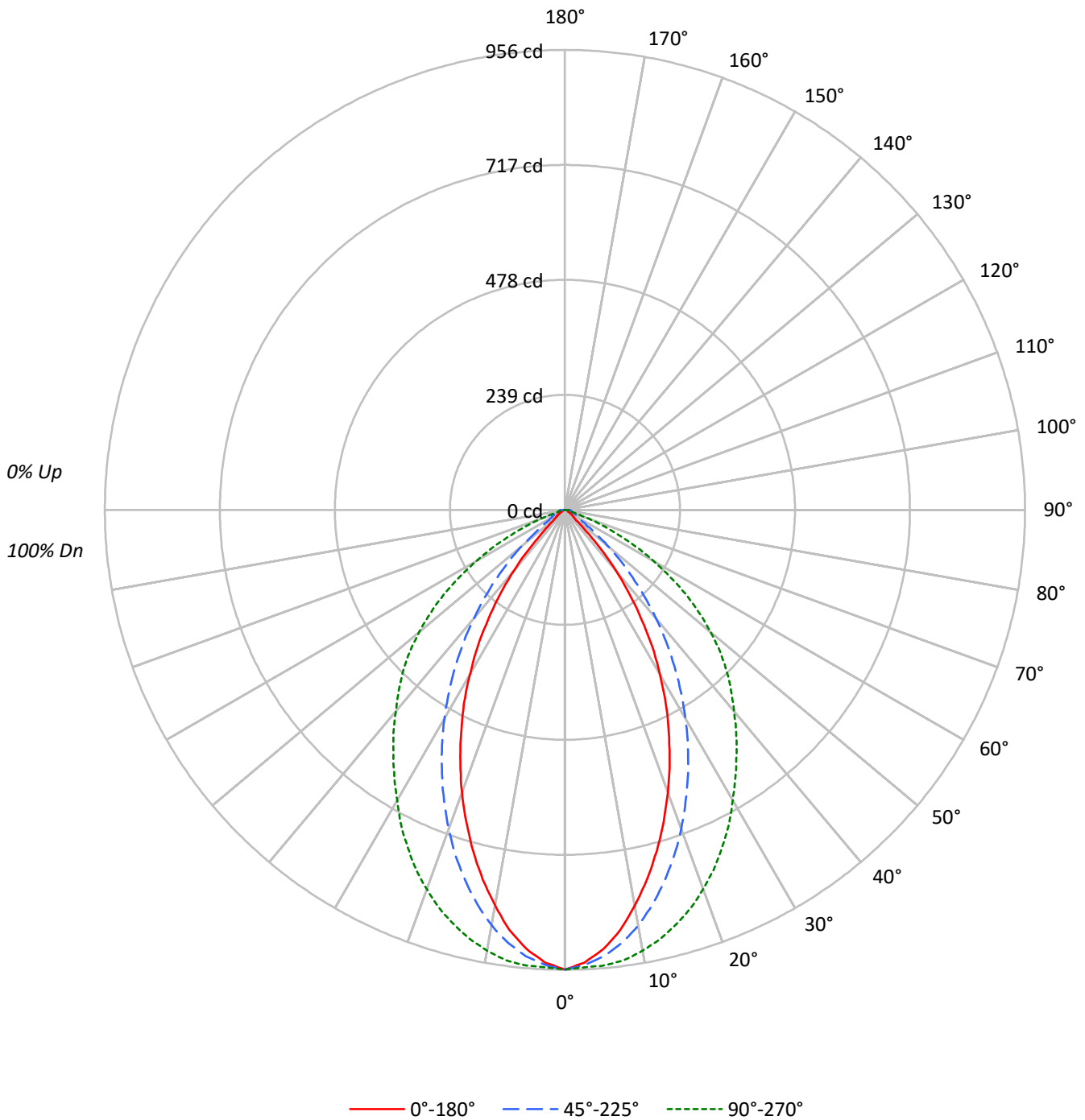
Lumens per Lamp: N/A
Luminaire Lumens: 1199.4 lumens
Efficiency: N/A
Efficacy: 28.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8229	8229	8229
5°	7921	8053	8217
10°	7305	7670	8135
15°	6556	7120	7955
20°	5730	6472	7690
25°	4847	5748	7348
30°	3914	4984	6934
35°	2914	4165	6533
40°	1849	3301	6147
45°	740	2420	5796
50°	322	1543	5290
55°	248	799	4618
60°	174	544	3661
65°	128	542	2502
70°	128	478	1148
75°	170	506	462
80°	253	565	501
85°	504	998	751

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5796 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	7.3
10°-20°	225.6	18.8
20°-30°	285.0	23.8
30°-40°	261.8	21.8
40°-50°	178.5	14.9
50°-60°	96.8	8.1
60°-70°	41.1	3.4
70°-80°	14.2	1.2
80°-90°	9.0	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°	598.1	49.9
0°-40°	859.8	71.7
0°-60°	1135.1	94.6
0°-90°	1199.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1199.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	916	930	932	939	951	85
15°	735	759	799	856	892	205
25°	510	543	605	699	773	233
35°	277	314	396	520	622	172
45°	61	98	199	352	476	56
55°	16	18	53	194	308	15
65°	6	8	27	61	123	7
75°	5	14	15	14	14	5
85°	5	10	10	10	8	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	955.6	955.6	955.6	955.6	955.6
2.5°	941.7	953.1	946.8	949.3	951.8
5°	916.4	930.3	931.6	939.2	950.6
7.5°	881.0	897.4	907.5	926.5	944.2
10°	835.4	855.6	877.2	907.5	930.3
12.5°	787.3	808.8	840.5	883.5	913.9
15°	735.4	759.4	798.7	855.6	892.3
17.5°	681.0	707.5	754.4	821.5	868.3
20°	625.3	654.4	706.3	782.2	839.2
22.5°	568.3	598.7	655.7	741.7	808.8
25°	510.1	543.0	605.0	698.7	773.4
27.5°	454.4	484.8	553.1	655.7	737.9
30°	393.6	427.8	501.2	611.4	697.4
32.5°	338.0	370.9	448.1	565.8	659.5
35°	277.2	313.9	396.2	520.2	621.5
37.5°	220.2	255.7	345.5	477.2	584.8
40°	164.5	201.3	293.7	434.1	546.8
42.5°	110.1	149.4	244.3	389.8	511.4
45°	60.8	97.5	198.7	351.9	475.9
47.5°	31.6	53.2	155.7	313.9	437.9
50°	24.0	29.1	115.2	272.1	394.9
52.5°	20.3	21.5	78.5	230.4	351.9
55°	16.5	17.7	53.2	193.7	307.6
57.5°	12.7	13.9	38.0	158.2	258.2
60°	10.1	11.4	31.6	121.5	212.6
62.5°	7.6	8.9	30.4	89.9	167.1
65°	6.3	7.6	26.6	60.8	122.8
67.5°	5.1	7.6	22.8	39.2	82.3
70°	5.1	10.1	19.0	25.3	45.6
72.5°	5.1	11.4	16.5	16.5	16.5
75°	5.1	13.9	15.2	13.9	13.9
77.5°	5.1	12.7	12.7	12.7	12.7
80°	5.1	11.4	11.4	11.4	10.1
82.5°	5.1	10.1	11.4	11.4	8.9
85°	5.1	10.1	10.1	10.1	7.6
87.5°	3.8	10.1	10.1	10.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)