

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: P1060375

Luminaire Tested: S124RDR-S1195D950-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060375
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-S1195D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

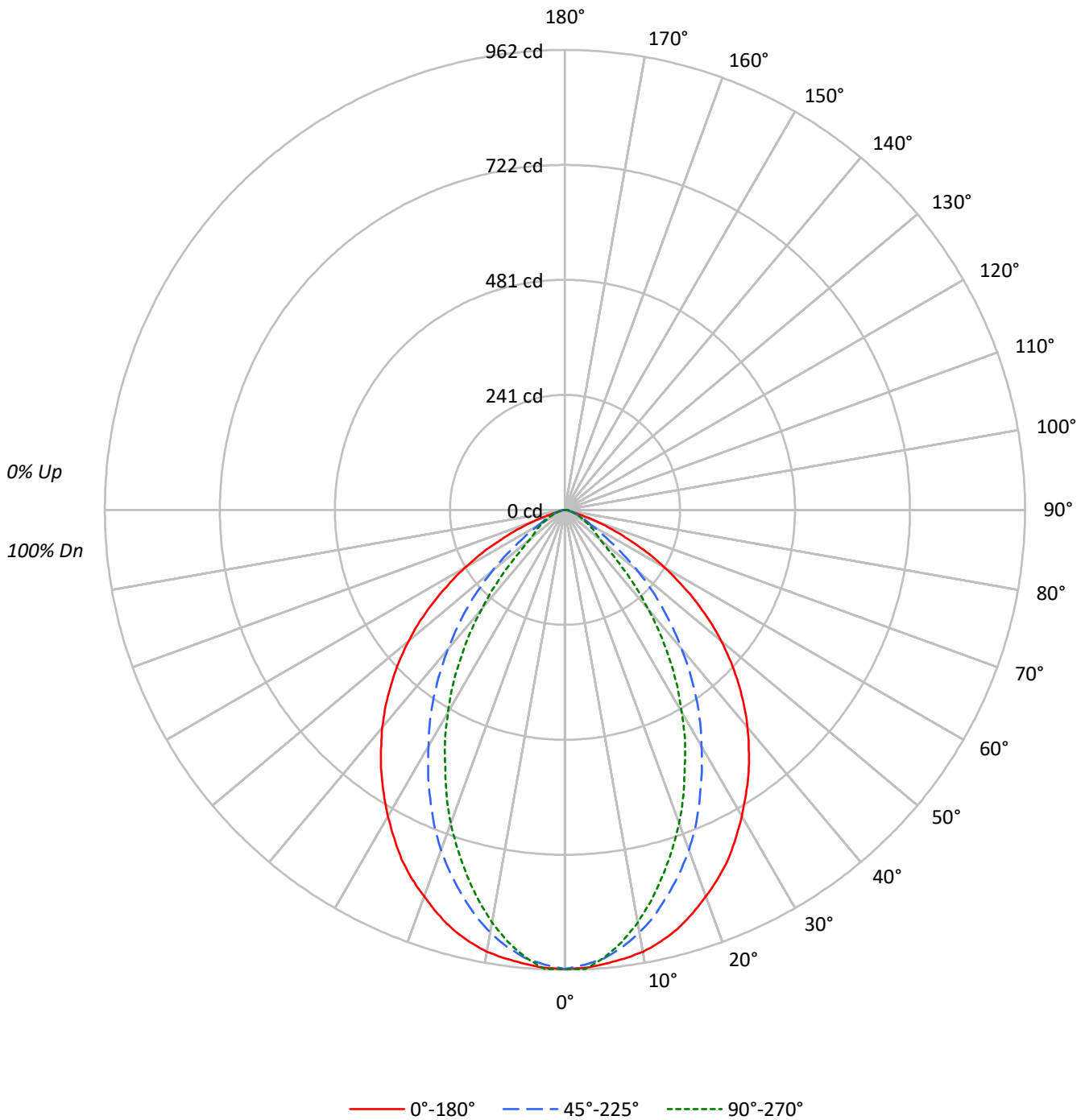
Lumens per Lamp: N/A
Luminaire Lumens: 1416.0 lumens
Efficiency: N/A
Efficacy: 33.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90			90	
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80			80	
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71			71	
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63	
5	84	74	66	61	82	73	66	60	71	65	60	69	63	59	67	62	59	57			57	
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51			51	
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	48	47			47	
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43			43	
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			39	
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36			36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8270	8270	8270
5°	8243	8138	8126
10°	8208	7854	7664
15°	8091	7428	7054
20°	7884	6942	6396
25°	7672	6336	5630
30°	7357	5676	4855
35°	7039	5020	4010
40°	6675	4273	3041
45°	6244	3493	2042
50°	5708	2646	1269
55°	5016	1746	1076
60°	4147	1071	885
65°	3003	827	717
70°	1634	612	544
75°	359	449	496
80°	268	337	402
85°	267	267	405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6244 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	6.3
10°-20°	236.3	16.7
20°-30°	313.1	22.1
30°-40°	310.7	21.9
40°-50°	239.1	16.9
50°-60°	142.5	10.1
60°-70°	64.8	4.6
70°-80°	16.8	1.2
80°-90°	3.7	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°	638.4	45.1
0°-40°	949.1	67.0
0°-60°	1330.7	94.0
0°-90°	1416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	954	955	942	942	940	91
15°	908	885	833	805	791	255
25°	808	749	667	611	592	371
35°	670	586	478	404	382	418
45°	513	413	287	200	168	395
55°	334	238	116	73	72	298
65°	147	88	41	35	35	148
75°	11	14	14	15	15	23
85°	3	3	3	4	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.4	960.4	960.4	960.4	960.4
2.5°	959.0	960.4	952.3	959.0	961.7
5°	953.6	955.0	941.5	941.5	940.1
7.5°	946.9	944.2	922.5	914.4	911.7
10°	938.7	929.3	898.2	881.9	876.5
12.5°	925.2	910.3	868.4	845.4	835.9
15°	907.6	884.6	833.2	804.8	791.3
17.5°	886.0	857.6	796.7	760.2	745.3
20°	860.3	822.4	757.5	711.5	698.0
22.5°	835.9	788.6	714.2	661.5	646.6
25°	807.5	749.4	666.9	611.4	592.5
27.5°	773.7	711.5	619.5	562.7	543.8
30°	739.9	670.9	570.8	511.3	488.3
32.5°	704.7	629.0	526.2	458.6	436.9
35°	669.6	585.7	477.5	404.4	381.5
37.5°	631.7	542.4	428.8	353.0	327.3
40°	593.8	500.5	380.1	303.0	270.5
42.5°	554.6	457.2	332.8	251.6	219.1
45°	512.7	412.6	286.8	200.2	167.7
47.5°	470.7	370.6	240.8	150.1	120.4
50°	426.1	326.0	197.5	109.6	94.7
52.5°	381.5	282.7	154.2	85.2	81.2
55°	334.1	238.1	116.3	73.0	71.7
57.5°	285.4	197.5	83.9	63.6	60.9
60°	240.8	159.6	62.2	54.1	51.4
62.5°	194.8	120.4	51.4	44.6	41.9
65°	147.4	87.9	40.6	35.2	35.2
67.5°	106.9	59.5	32.5	28.4	27.1
70°	64.9	36.5	24.3	23.0	21.6
72.5°	32.5	21.6	18.9	17.6	17.6
75°	10.8	13.5	13.5	14.9	14.9
77.5°	8.1	9.5	9.5	10.8	10.8
80°	5.4	6.8	6.8	8.1	8.1
82.5°	4.1	4.1	5.4	5.4	6.8
85°	2.7	2.7	2.7	4.1	4.1
87.5°	1.4	1.4	1.4	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)