

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: P1060295

Luminaire Tested: S124RDR-S1020D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-77)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1020D950-X4F0-XX-UDD-SVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

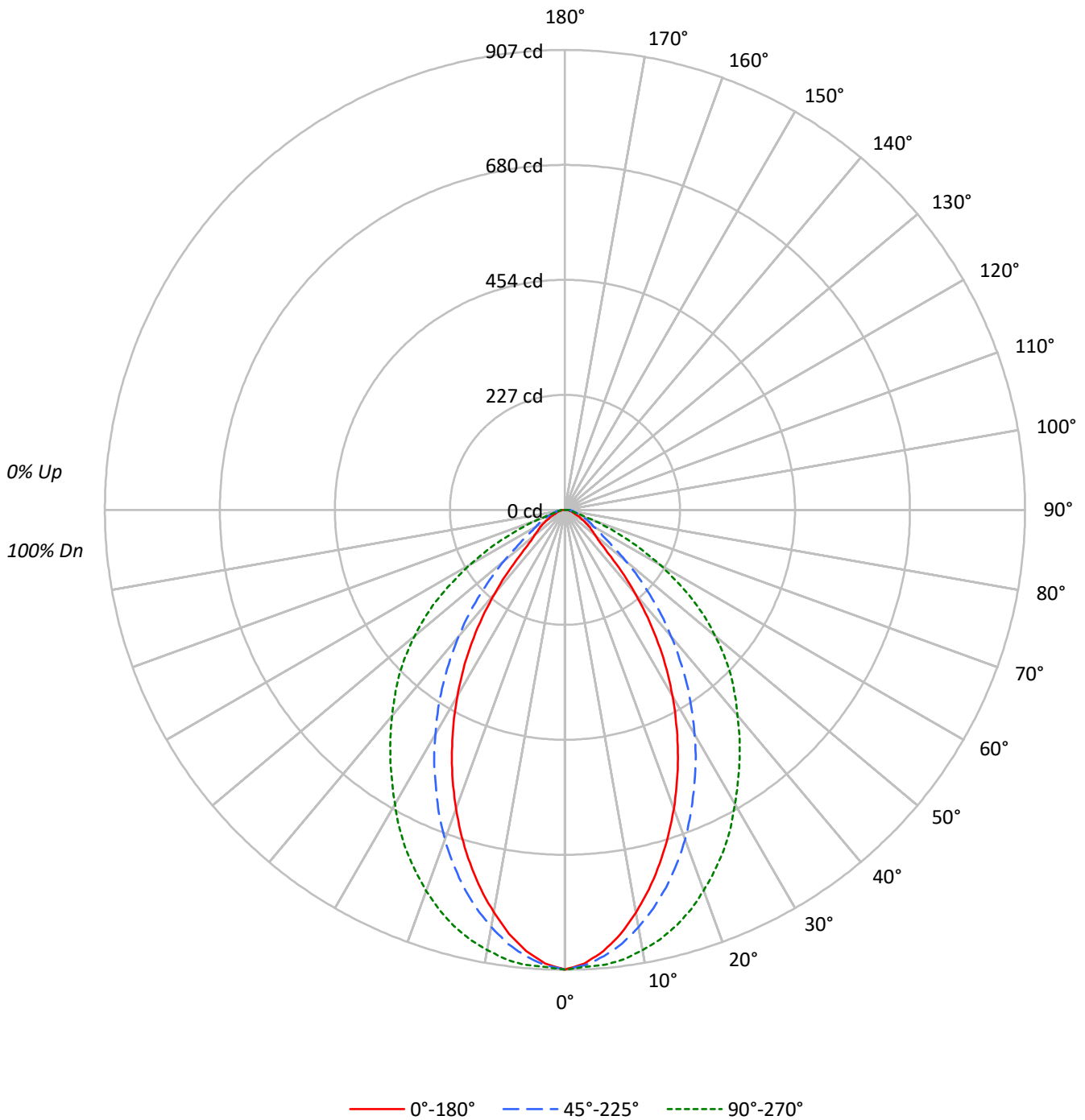
Lumens per Lamp: N/A
Luminaire Lumens: 1275.0 lumens
Efficiency: N/A
Efficacy: 36.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89	
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79	
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70	
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63			63	
5	84	73	66	61	82	72	65	60	70	64	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	49	47			47	
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43			43	
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39			39	
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36			36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7808	7808	7808
5°	7549	7639	7788
10°	7051	7303	7707
15°	6438	6870	7570
20°	5751	6343	7326
25°	5009	5722	7037
30°	4221	5081	6664
35°	3371	4403	6306
40°	2425	3657	5952
45°	1461	2880	5634
50°	1050	2086	5178
55°	883	1402	4589
60°	715	1113	3696
65°	564	1011	2657
70°	493	843	1423
75°	459	769	692
80°	456	803	630
85°	682	1136	800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5634 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	6.5
10°-20°	218.1	17.1
20°-30°	283.0	22.2
30°-40°	272.0	21.3
40°-50°	201.8	15.8
50°-60°	123.6	9.7
60°-70°	60.1	4.7
70°-80°	22.9	1.8
80°-90°	10.3	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°	584.3	45.8
0°-40°	856.4	67.2
0°-60°	1181.8	92.7
0°-90°	1275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	873	886	884	892	901	81
15°	722	743	771	817	849	202
25°	527	554	602	680	741	241
35°	321	350	419	518	600	199
45°	120	150	236	361	463	100
55°	59	61	93	211	306	53
65°	28	30	50	78	130	29
75°	14	22	23	21	21	15
85°	7	12	12	10	8	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	906.7	906.7	906.7	906.7	906.7
2.5°	895.2	905.6	898.7	901.0	902.1
5°	873.3	886.0	883.7	891.7	901.0
7.5°	843.3	858.3	862.9	879.0	894.0
10°	806.4	824.8	835.2	861.7	881.4
12.5°	766.0	785.6	805.2	841.0	867.5
15°	722.2	742.9	770.6	816.8	849.1
17.5°	676.0	699.1	732.5	787.9	826.0
20°	627.6	651.8	692.2	753.3	799.4
22.5°	578.0	603.3	648.3	716.4	770.6
25°	527.2	553.7	602.2	679.5	740.6
27.5°	475.3	503.0	558.3	640.3	707.2
30°	424.5	451.1	511.0	599.9	670.2
32.5°	372.6	400.3	464.9	558.3	634.5
35°	320.7	349.5	418.8	518.0	599.9
37.5°	267.6	298.8	371.5	478.7	565.3
40°	215.7	245.7	325.3	438.4	529.5
42.5°	165.0	197.3	281.5	398.0	496.1
45°	120.0	150.0	236.5	361.1	462.6
47.5°	90.0	108.4	195.0	326.5	425.7
50°	78.4	81.9	155.7	288.4	386.5
52.5°	68.1	70.4	121.1	246.9	347.2
55°	58.8	61.1	93.4	211.1	305.7
57.5°	49.6	51.9	75.0	176.5	258.4
60°	41.5	43.8	64.6	140.7	214.6
62.5°	34.6	35.8	57.7	107.3	171.9
65°	27.7	30.0	49.6	78.4	130.4
67.5°	23.1	25.4	40.4	54.2	91.1
70°	19.6	25.4	33.5	38.1	56.5
72.5°	16.2	23.1	27.7	26.5	26.5
75°	13.8	21.9	23.1	20.8	20.8
77.5°	11.5	19.6	18.5	17.3	16.2
80°	9.2	16.2	16.2	13.8	12.7
82.5°	8.1	12.7	12.7	12.7	10.4
85°	6.9	11.5	11.5	10.4	8.1
87.5°	4.6	9.2	10.4	9.2	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)