

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: P1060524

Luminaire Tested: S124RDR-S575D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-73)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S575D935-X4F0-XX-UDD-WVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

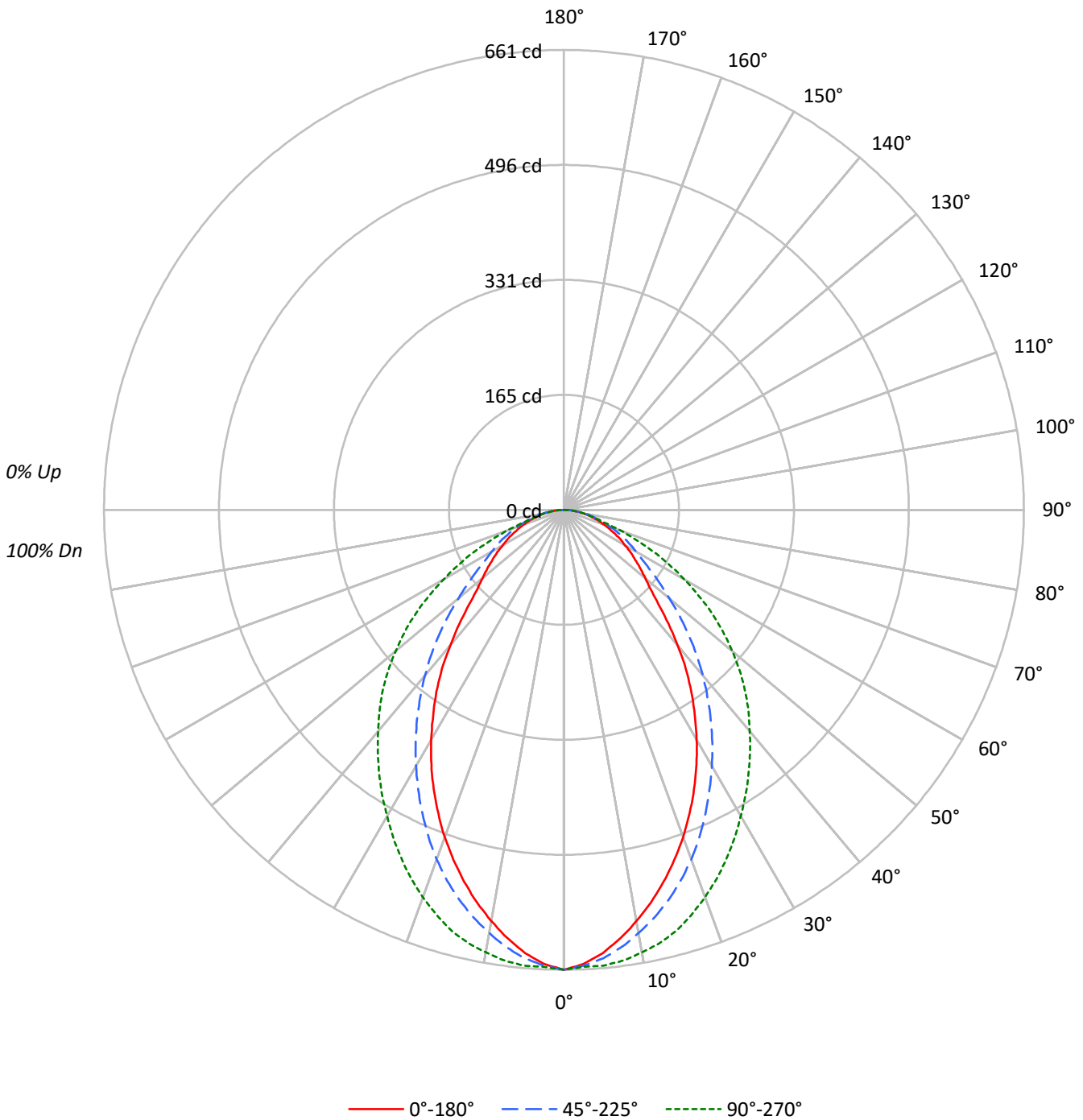
Lumens per Lamp: N/A
Luminaire Lumens: 1212.9 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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

TEST NUMBER: P1060524

CATALOG NUMBER: S124RDR-S575D935-X4F0-XX-UDD-WVL-W

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87						87														
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75						75														
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65						65														
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57						57														
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50						50														
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45						45														
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40						40														
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37						37														
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33						33														
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32	31						31														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5692	5692	5692
5°	5527	5593	5683
10°	5248	5401	5647
15°	4934	5173	5580
20°	4588	4899	5430
25°	4207	4574	5252
30°	3792	4229	5054
35°	3358	3867	4864
40°	2854	3491	4668
45°	2337	3085	4488
50°	2046	2648	4224
55°	1880	2283	3908
60°	1743	2055	3446
65°	1632	1932	2885
70°	1531	1767	2165
75°	1441	1617	1577
80°	1334	1478	1334
85°	1215	1443	1156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4488 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	5.0
10°-20°	164.4	13.6
20°-30°	224.7	18.5
30°-40°	236.1	19.5
40°-50°	204.9	16.9
50°-60°	154.6	12.7
60°-70°	100.2	8.3
70°-80°	51.4	4.2
80°-90°	15.6	1.3
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°	450.1	37.1
0°-40°	686.2	56.6
0°-60°	1045.7	86.2
0°-90°	1212.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1212.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	661	661	661	661	661	
5°	639	648	647	652	658	60
15°	553	567	580	607	626	155
25°	443	459	481	518	553	203
35°	319	337	368	417	463	199
45°	192	210	253	316	368	151
55°	125	129	152	216	260	113
65°	80	82	95	115	142	80
75°	43	49	49	49	47	46
85°	12	15	15	14	12	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	661.0	661.0	661.0	661.0	661.0
2.5°	653.4	661.6	655.7	656.9	657.5
5°	639.4	648.1	647.0	652.2	657.5
7.5°	621.2	631.7	634.1	644.6	653.4
10°	600.2	611.9	617.7	634.7	645.8
12.5°	577.9	589.6	600.2	621.8	637.6
15°	553.4	566.8	580.3	606.6	625.9
17.5°	527.6	541.7	558.6	587.3	610.1
20°	500.7	514.8	534.6	565.6	592.6
22.5°	472.1	487.9	508.9	542.3	573.8
25°	442.8	458.6	481.4	518.3	552.8
27.5°	412.4	428.8	453.3	494.3	531.1
30°	381.4	398.9	425.3	468.5	508.3
32.5°	349.8	368.5	396.6	442.8	486.1
35°	319.4	336.9	367.9	417.1	462.7
37.5°	287.8	305.3	338.7	391.9	439.3
40°	253.9	273.2	310.6	365.6	415.3
42.5°	222.3	241.6	281.9	340.4	392.5
45°	191.9	210.0	253.3	316.5	368.5
47.5°	168.5	181.3	224.6	293.1	342.8
50°	152.7	158.5	197.7	267.3	315.3
52.5°	138.6	143.3	173.1	241.6	288.4
55°	125.2	128.7	152.1	215.8	260.3
57.5°	113.5	115.2	133.4	190.1	229.9
60°	101.2	103.5	119.3	163.8	200.1
62.5°	91.3	92.4	107.0	138.6	170.2
65°	80.1	81.9	94.8	114.7	141.6
67.5°	70.2	73.1	81.9	93.6	111.7
70°	60.8	64.9	70.2	76.0	86.0
72.5°	52.1	56.7	59.7	62.0	60.3
75°	43.3	48.6	48.6	49.1	47.4
77.5°	35.1	39.8	39.2	38.6	36.3
80°	26.9	31.0	29.8	29.2	26.9
82.5°	19.9	22.8	21.6	21.1	18.1
85°	12.3	15.2	14.6	14.0	11.7
87.5°	5.8	8.8	8.2	7.6	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)