

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: P1060513

Luminaire Tested: S124RDR-S575D930-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-37)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S575D930-X4F0-XX-UDD-WVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

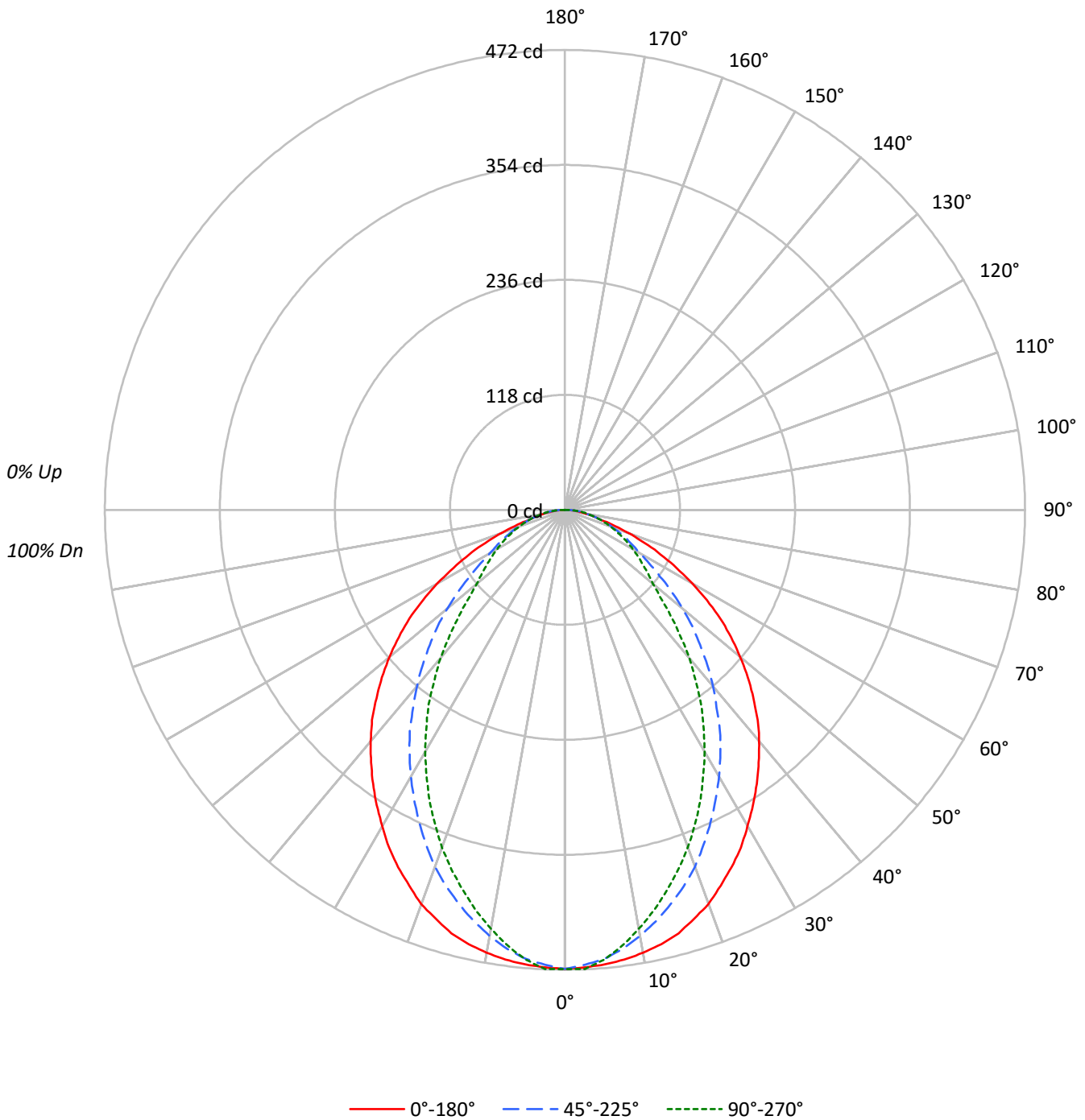
Lumens per Lamp: N/A
Luminaire Lumens: 908.3 lumens
Efficiency: N/A
Efficacy: 46.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.96 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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: P1060513

CATALOG NUMBER: S124RDR-S575D930-X4F0-XX-UDD-WVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1060513

CATALOG NUMBER: S124RDR-S575D930-X4F0-XX-UDD-WVL-B

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88				86	
2	101	94	88	83	99	92	86	82	89	84	80	85	82	78	82	79	76				74	
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66				64	
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58				56	
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52				50	
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46				44	
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42				40	
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38				36	
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35				33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32				30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4057	4057	4057
5°	4048	4000	4005
10°	4036	3881	3818
15°	4012	3735	3603
20°	3946	3571	3378
25°	3844	3361	3124
30°	3726	3143	2851
35°	3608	2915	2561
40°	3485	2657	2234
45°	3329	2386	1867
50°	3144	2106	1579
55°	2925	1787	1462
60°	2594	1516	1383
65°	2211	1398	1308
70°	1727	1297	1241
75°	1178	1198	1198
80°	1017	1126	1150
85°	879	1097	1205

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3329 cd/sqm



TEST NUMBER: P1060513

CATALOG NUMBER: S124RDR-S575D930-X4F0-XX-UDD-WVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	4.8
10°-20°	119.0	13.1
20°-30°	165.2	18.2
30°-40°	177.1	19.5
40°-50°	156.9	17.3
50°-60°	118.2	13.0
60°-70°	76.6	8.4
70°-80°	39.3	4.3
80°-90°	12.1	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°	328.1	36.1
0°-40°	505.2	55.6
0°-60°	780.4	85.9
0°-90°	908.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	908.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	471	471	471	471	471	
5°	468	469	463	463	463	44
15°	450	440	419	408	404	127
25°	405	383	354	335	329	186
35°	343	312	277	252	244	215
45°	273	238	196	166	153	211
55°	195	162	119	100	97	173
65°	108	88	69	65	64	108
75°	35	37	36	36	36	42
85°	9	9	11	12	12	10
90°	0	0	0	0	0	



TEST NUMBER: P1060513

CATALOG NUMBER: S124RDR-S575D930-X4F0-XX-UDD-WVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	471.1	471.1	471.1	471.1	471.1
2.5°	469.9	471.6	467.2	470.5	471.6
5°	468.3	468.8	462.7	463.3	463.3
7.5°	465.5	464.4	454.4	451.7	451.1
10°	461.6	458.3	443.9	438.4	436.7
12.5°	456.7	450.6	432.3	424.6	421.2
15°	450.0	440.1	419.0	408.5	404.1
17.5°	440.1	427.3	405.2	391.9	386.9
20°	430.6	413.5	389.7	373.1	368.6
22.5°	417.4	399.1	372.0	354.3	348.7
25°	404.6	383.0	353.7	334.9	328.8
27.5°	390.8	366.4	334.9	315.0	307.2
30°	374.7	348.7	316.1	295.0	286.7
32.5°	359.2	331.6	296.7	273.4	264.6
35°	343.2	312.2	277.3	252.4	243.6
37.5°	326.6	293.9	255.7	231.4	219.8
40°	310.0	275.7	236.4	208.7	198.7
42.5°	292.8	256.8	216.4	187.6	174.9
45°	273.4	238.0	195.9	165.5	153.3
47.5°	254.6	219.8	177.1	143.9	132.8
50°	234.7	200.4	157.2	125.1	117.9
52.5°	214.8	180.4	137.8	110.7	107.4
55°	194.8	162.2	119.0	100.2	97.4
57.5°	172.7	143.4	102.4	90.8	88.6
60°	150.6	122.9	88.0	81.9	80.3
62.5°	129.0	105.2	78.0	73.1	72.0
65°	108.5	87.5	68.6	64.8	64.2
67.5°	88.6	72.0	59.8	57.6	56.5
70°	68.6	57.6	51.5	50.4	49.3
72.5°	50.9	46.5	43.7	43.2	42.6
75°	35.4	37.1	36.0	36.0	36.0
77.5°	28.2	28.8	29.3	29.9	29.3
80°	20.5	22.1	22.7	23.8	23.2
82.5°	14.4	15.5	17.2	17.7	18.3
85°	8.9	9.4	11.1	12.2	12.2
87.5°	3.9	4.4	5.5	6.6	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)