

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: P1060605

Luminaire Tested: S124RDR-S795D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060605
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-S795D935-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

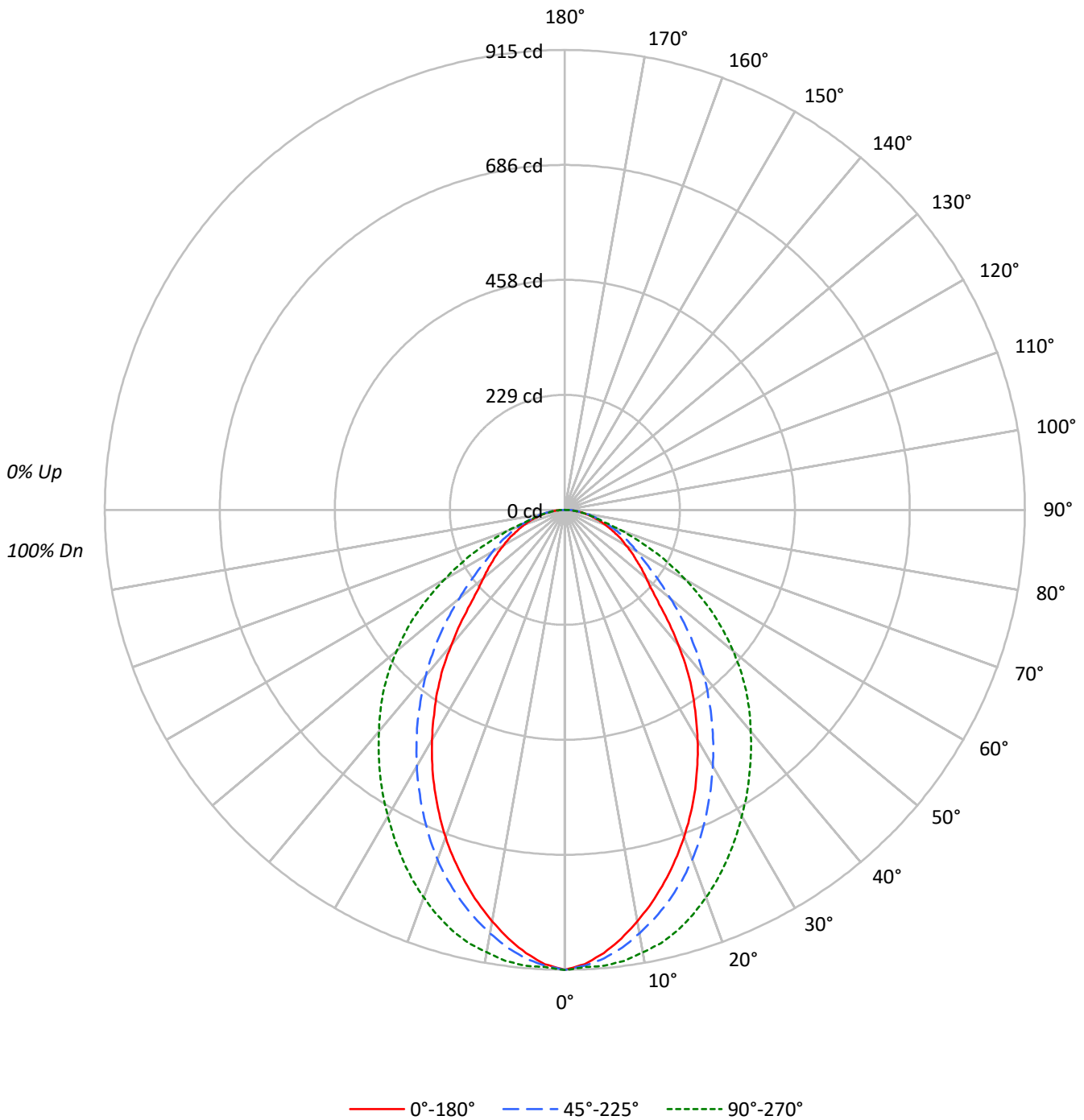
Lumens per Lamp: N/A
Luminaire Lumens: 1679.6 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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

TEST NUMBER: P1060605

CATALOG NUMBER: S124RDR-S795D935-X4F0-XX-UDD-WVL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1060605

CATALOG NUMBER: S124RDR-S795D935-X4F0-XX-UDD-WVL-W

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	0																	
RCR																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																				
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87																				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75																				
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65																				
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57																				
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50																				
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45																				
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40																				
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37																				
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33																				
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32	31																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7882	7882	7882
5°	7653	7744	7870
10°	7267	7480	7820
15°	6831	7163	7727
20°	6354	6785	7520
25°	5826	6334	7273
30°	5251	5856	6999
35°	4650	5356	6735
40°	3952	4835	6465
45°	3236	4271	6214
50°	2832	3668	5849
55°	2602	3162	5412
60°	2413	2845	4771
65°	2262	2673	3994
70°	2120	2447	2999
75°	1993	2236	2183
80°	1850	2048	1850
85°	1680	2006	1601

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6214 cd/sqm



TEST NUMBER: P1060605

CATALOG NUMBER: S124RDR-S795D935-X4F0-XX-UDD-WVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	5.0
10°-20°	227.6	13.6
20°-30°	311.1	18.5
30°-40°	327.0	19.5
40°-50°	283.7	16.9
50°-60°	214.0	12.7
60°-70°	138.7	8.3
70°-80°	71.2	4.2
80°-90°	21.6	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°	623.3	37.1
0°-40°	950.3	56.6
0°-60°	1448.0	86.2
0°-90°	1679.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1679.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	885	898	896	903	910	83
15°	766	785	804	840	867	215
25°	613	635	667	718	766	281
35°	442	467	510	578	641	275
45°	266	291	351	438	510	209
55°	173	178	211	299	360	156
65°	111	113	131	159	196	111
75°	60	67	67	68	66	64
85°	17	21	20	19	16	19
90°	0	0	0	0	0	



TEST NUMBER: P1060605

CATALOG NUMBER: S124RDR-S795D935-X4F0-XX-UDD-WVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	915.3	915.3	915.3	915.3	915.3
2.5°	904.8	916.1	908.0	909.7	910.5
5°	885.4	897.5	895.9	903.2	910.5
7.5°	860.2	874.8	878.1	892.6	904.8
10°	831.1	847.3	855.4	878.9	894.3
12.5°	800.3	816.5	831.1	861.1	882.9
15°	766.3	784.9	803.5	840.0	866.7
17.5°	730.6	750.1	773.6	813.3	844.9
20°	693.4	712.8	740.4	783.3	820.6
22.5°	653.7	675.6	704.7	750.9	794.6
25°	613.2	635.1	666.6	717.7	765.5
27.5°	571.1	593.7	627.8	684.5	735.5
30°	528.1	552.4	588.9	648.8	703.9
32.5°	484.4	510.3	549.2	613.2	673.1
35°	442.3	466.6	509.5	577.5	640.7
37.5°	398.5	422.8	469.0	542.7	608.3
40°	351.6	378.3	430.1	506.3	575.1
42.5°	307.8	334.5	390.4	471.4	543.5
45°	265.7	290.8	350.7	438.2	510.3
47.5°	233.3	251.1	311.0	405.8	474.7
50°	211.4	219.5	273.8	370.2	436.6
52.5°	192.0	198.5	239.8	334.5	399.3
55°	173.3	178.2	210.6	298.9	360.5
57.5°	157.1	159.6	184.7	263.3	318.3
60°	140.1	143.4	165.2	226.8	277.0
62.5°	126.4	128.0	148.2	192.0	235.7
65°	111.0	113.4	131.2	158.8	196.0
67.5°	97.2	101.3	113.4	129.6	154.7
70°	84.2	89.9	97.2	105.3	119.1
72.5°	72.1	78.6	82.6	85.9	83.4
75°	59.9	67.2	67.2	68.0	65.6
77.5°	48.6	55.1	54.3	53.5	50.2
80°	37.3	42.9	41.3	40.5	37.3
82.5°	27.5	31.6	30.0	29.2	25.1
85°	17.0	21.1	20.3	19.4	16.2
87.5°	8.1	12.2	11.3	10.5	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)