

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: P1060588

Luminaire Tested: S124RDR-S795D930-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-39)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S795D930-X4F0-XX-UDD-BVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

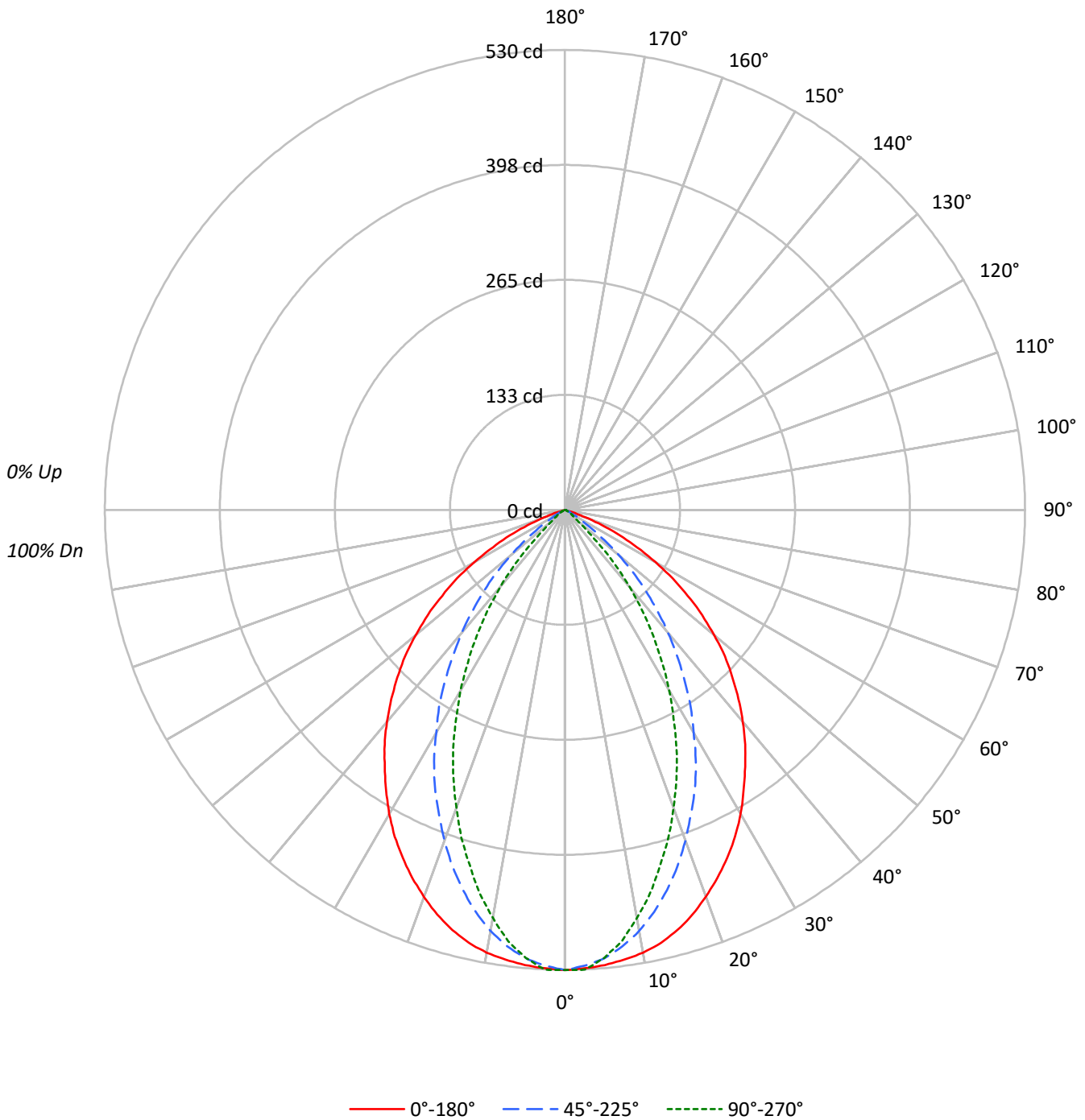
Lumens per Lamp: N/A
Luminaire Lumens: 692.6 lumens
Efficiency: N/A
Efficacy: 26.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.83 / 0.98
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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: P1060588

CATALOG NUMBER: S124RDR-S795D930-X4F0-XX-UDD-BVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1060588

CATALOG NUMBER: S124RDR-S795D930-X4F0-XX-UDD-BVL-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	69	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	52	46	41	63	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4567	4567	4567
5°	4552	4485	4479
10°	4531	4310	4175
15°	4469	4046	3779
20°	4348	3716	3350
25°	4202	3364	2891
30°	4024	2949	2393
35°	3803	2530	1862
40°	3585	2076	1301
45°	3323	1597	644
50°	2998	1078	216
55°	2590	552	150
60°	2072	198	105
65°	1422	110	47
70°	637	58	38
75°	0	27	27
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3323 cd/sqm



TEST NUMBER: P1060588

CATALOG NUMBER: S124RDR-S795D930-X4F0-XX-UDD-BVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	7.1
10°-20°	128.4	18.5
20°-30°	166.2	24.0
30°-40°	157.9	22.8
40°-50°	111.8	16.1
50°-60°	57.4	8.3
60°-70°	20.1	2.9
70°-80°	1.7	0.3
80°-90°	0.0	0.0
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°	343.6	49.6
0°-40°	501.5	72.4
0°-60°	670.8	96.8
0°-90°	692.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	692.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	527	527	519	519	518	50
15°	501	486	454	432	424	141
25°	442	408	354	317	304	203
35°	362	309	241	194	177	226
45°	273	210	131	75	53	210
55°	172	113	37	11	10	154
65°	70	34	5	3	2	69
75°	0	1	1	1	1	6
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1060588

CATALOG NUMBER: S124RDR-S795D930-X4F0-XX-UDD-BVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	530.4	530.4	530.4	530.4	530.4
2.5°	528.9	530.4	525.8	529.7	530.4
5°	526.6	527.4	518.9	518.9	518.2
7.5°	522.8	521.2	507.4	502.1	501.3
10°	518.2	512.8	492.9	481.4	477.5
12.5°	511.3	501.3	474.5	457.6	453.0
15°	501.3	486.0	453.8	432.3	423.9
17.5°	489.0	469.1	430.8	404.7	396.3
20°	474.5	449.2	405.5	376.4	365.6
22.5°	459.1	430.0	379.4	346.5	335.7
25°	442.3	407.8	354.1	316.6	304.3
27.5°	424.6	384.0	326.5	287.4	271.3
30°	404.7	360.3	296.6	256.0	240.7
32.5°	383.3	334.2	269.8	226.1	207.7
35°	361.8	308.9	240.7	193.9	177.1
37.5°	341.1	285.1	211.6	162.5	146.4
40°	318.9	259.1	184.7	134.1	115.7
42.5°	295.9	233.8	157.1	105.0	85.1
45°	272.9	210.0	131.1	75.1	52.9
47.5°	249.9	184.7	105.8	47.5	28.4
50°	223.8	160.2	80.5	25.3	16.1
52.5°	199.3	137.2	57.5	14.6	12.3
55°	172.5	113.4	36.8	10.7	10.0
57.5°	147.2	90.4	20.7	8.4	7.7
60°	120.3	69.8	11.5	6.9	6.1
62.5°	93.5	50.6	7.7	4.6	3.8
65°	69.8	33.7	5.4	3.1	2.3
67.5°	46.0	19.2	3.8	1.5	1.5
70°	25.3	9.2	2.3	1.5	1.5
72.5°	9.2	3.1	1.5	0.8	0.8
75°	0.0	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.8
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)