

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: P1060593

Luminaire Tested: S124RDR-S795D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-74)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S795D930-X4F0-XX-UDD-SVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

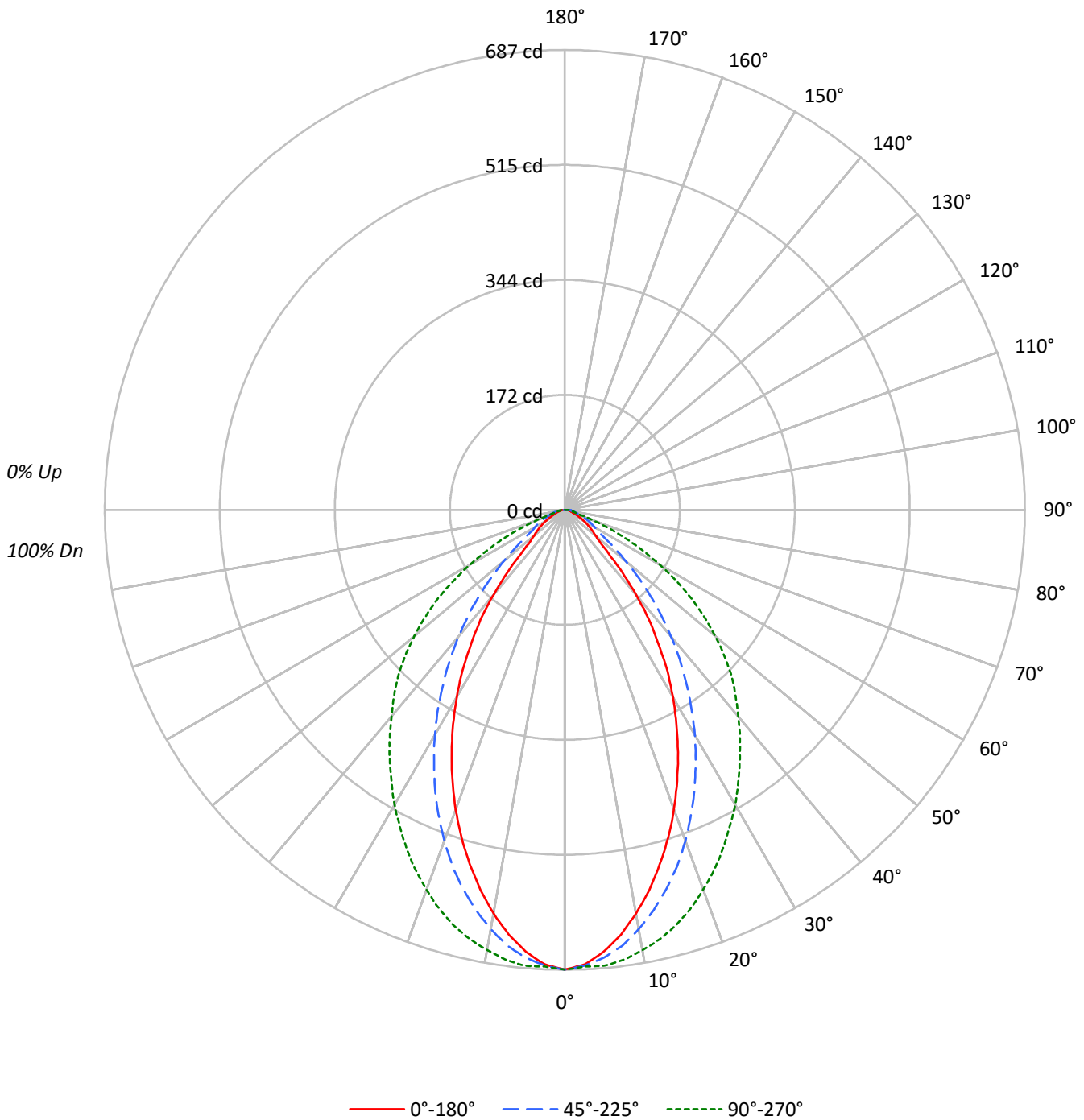
Lumens per Lamp: N/A
Luminaire Lumens: 972.0 lumens
Efficiency: N/A
Efficacy: 37.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89																												
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79																												
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70																												
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63																												
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57																												
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51																												
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47																												
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43																												
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39																												
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5914	5914	5914
5°	5731	5804	5910
10°	5354	5562	5837
15°	4884	5226	5726
20°	4367	4824	5534
25°	3799	4360	5307
30°	3205	3861	5058
35°	2549	3323	4791
40°	1855	2769	4528
45°	1122	2187	4289
50°	802	1583	3927
55°	680	1072	3468
60°	555	871	2802
65°	438	782	2017
70°	368	657	1062
75°	333	612	536
80°	342	610	531
85°	454	909	603

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4289 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	6.5
10°-20°	165.7	17.0
20°-30°	214.9	22.1
30°-40°	206.9	21.3
40°-50°	153.9	15.8
50°-60°	94.6	9.7
60°-70°	46.5	4.8
70°-80°	18.1	1.9
80°-90°	8.3	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°	443.8	45.7
0°-40°	650.6	66.9
0°-60°	899.1	92.5
0°-90°	972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	663	673	671	678	684	62
15°	548	566	586	622	642	153
25°	400	421	459	516	559	183
35°	242	266	316	395	456	152
45°	92	114	180	277	352	76
55°	45	47	71	163	231	41
65°	22	23	38	61	99	22
75°	10	18	18	17	16	11
85°	5	8	9	9	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	686.8	686.8	686.8	686.8	686.8
2.5°	679.9	687.5	681.4	682.2	682.9
5°	663.0	672.9	671.4	677.6	683.7
7.5°	640.0	651.5	656.8	669.1	677.6
10°	612.3	625.4	636.1	656.1	667.6
12.5°	581.6	597.0	612.3	639.2	656.8
15°	547.9	565.5	586.2	621.5	642.3
17.5°	513.3	531.0	557.8	598.5	624.6
20°	476.5	495.7	526.4	571.7	603.9
22.5°	438.1	458.9	492.6	544.0	582.4
25°	399.8	421.3	458.9	516.4	558.6
27.5°	361.4	382.1	422.8	487.3	533.3
30°	322.3	343.8	388.3	455.8	508.7
32.5°	284.7	304.6	352.2	425.9	481.9
35°	242.5	265.5	316.1	395.2	455.8
37.5°	206.4	227.1	281.6	364.5	429.7
40°	165.0	188.0	246.3	334.6	402.8
42.5°	126.6	149.6	212.6	304.6	377.5
45°	92.1	114.3	179.6	277.0	352.2
47.5°	69.8	82.9	147.3	250.1	323.8
50°	59.9	63.7	118.2	221.0	293.1
52.5°	52.9	54.5	92.1	191.8	262.4
55°	45.3	46.8	71.4	162.7	231.0
57.5°	38.4	39.1	57.5	135.1	197.2
60°	32.2	33.0	50.6	108.2	162.7
62.5°	26.9	27.6	45.3	83.6	129.7
65°	21.5	23.0	38.4	61.4	99.0
67.5°	17.6	20.7	32.2	43.0	69.1
70°	14.6	20.0	26.1	29.9	42.2
72.5°	12.3	18.4	22.3	21.5	20.7
75°	10.0	17.6	18.4	16.9	16.1
77.5°	8.4	15.3	15.3	13.8	13.0
80°	6.9	12.3	12.3	12.3	10.7
82.5°	6.1	10.0	10.7	10.7	8.4
85°	4.6	8.4	9.2	9.2	6.1
87.5°	3.1	7.7	8.4	7.7	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)