

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: P1060550

Luminaire Tested: S124RDR-S795D830-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-76)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S795D830-X4F0-XX-UDD-WVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

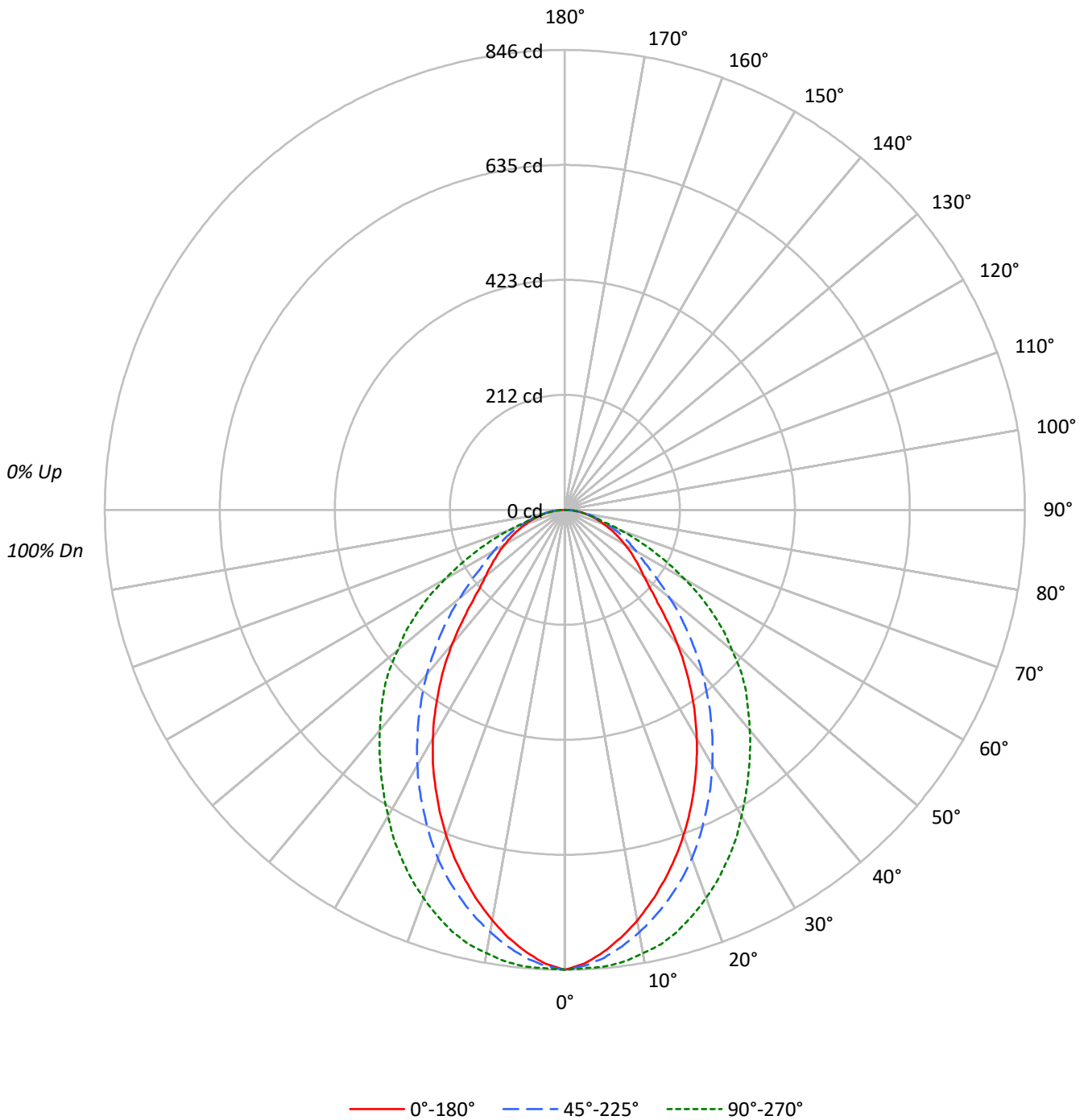
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1540.0 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1
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					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	108	104	100	97	100	97	94	96	93	91	92	90	89	87			87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75			75	
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65			65	
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57			57	
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	52	50			50	
6	75	62	54	48	73	62	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	54	47	43	52	47	42	41			41	
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37			37	
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34			34	
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31			31	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7283	7283	7283
5°	7059	7150	7289
10°	6706	6900	7241
15°	6292	6600	7153
20°	5842	6256	6963
25°	5349	5829	6739
30°	4822	5395	6462
35°	4250	4921	6198
40°	3617	4436	5950
45°	2937	3919	5733
50°	2541	3373	5369
55°	2356	2861	4978
60°	2199	2580	4368
65°	2060	2421	3631
70°	1921	2233	2747
75°	1830	2066	1976
80°	1716	1889	1671
85°	1581	1749	1314

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5733 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	5.1
10°-20°	209.9	13.6
20°-30°	286.6	18.6
30°-40°	300.3	19.5
40°-50°	259.9	16.9
50°-60°	195.3	12.7
60°-70°	125.9	8.2
70°-80°	64.6	4.2
80°-90°	19.3	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°	574.6	37.3
0°-40°	874.9	56.8
0°-60°	1330.1	86.4
0°-90°	1540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1540.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	817	829	827	833	843	76
15°	706	724	740	774	802	198
25°	563	584	614	661	709	258
35°	404	427	468	530	590	252
45°	241	266	322	401	471	190
55°	157	162	191	272	332	141
65°	101	103	119	144	178	100
75°	55	61	62	61	59	58
85°	16	19	18	17	13	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	845.8	845.8	845.8	845.8	845.8
2.5°	835.2	845.8	839.6	841.4	844.1
5°	816.6	829.0	827.2	833.4	843.2
7.5°	793.5	806.8	809.5	823.7	837.9
10°	766.9	782.0	789.1	810.4	828.1
12.5°	737.7	753.6	766.0	792.6	818.4
15°	705.8	723.5	740.3	774.0	802.4
17.5°	673.0	690.7	712.9	750.1	782.0
20°	637.5	657.0	682.7	721.7	759.8
22.5°	601.1	621.5	649.0	691.6	735.9
25°	563.0	584.3	613.5	661.4	709.3
27.5°	524.9	546.2	579.0	629.5	681.8
30°	485.0	507.2	542.6	597.6	649.9
32.5°	445.1	469.0	505.4	563.9	619.8
35°	404.3	427.4	468.1	530.2	589.6
37.5°	363.5	387.5	430.9	497.4	559.5
40°	321.8	346.7	394.6	464.6	529.3
42.5°	280.2	306.8	357.3	430.9	499.2
45°	241.2	266.0	321.8	400.8	470.8
47.5°	211.9	228.8	286.4	371.5	438.9
50°	189.7	198.6	251.8	339.6	400.8
52.5°	172.9	179.1	219.9	305.0	369.7
55°	156.9	162.3	190.6	272.2	331.6
57.5°	142.7	145.4	168.5	240.3	295.2
60°	127.7	130.3	149.8	205.7	253.6
62.5°	114.4	116.1	134.8	172.9	215.5
65°	101.1	102.8	118.8	143.6	178.2
67.5°	88.7	91.3	103.7	117.0	141.9
70°	76.3	81.6	88.7	94.9	109.1
72.5°	65.6	70.9	74.5	76.3	77.1
75°	55.0	61.2	62.1	61.2	59.4
77.5°	44.3	49.7	49.7	47.9	46.1
80°	34.6	39.0	38.1	36.4	33.7
82.5°	25.7	28.4	27.5	25.7	23.1
85°	16.0	18.6	17.7	16.8	13.3
87.5°	8.0	10.6	9.8	8.9	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)