

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: P1060598

Luminaire Tested: S124RDR-S795D935-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-78)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S795D935-X4F0-XX-UDD-BVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

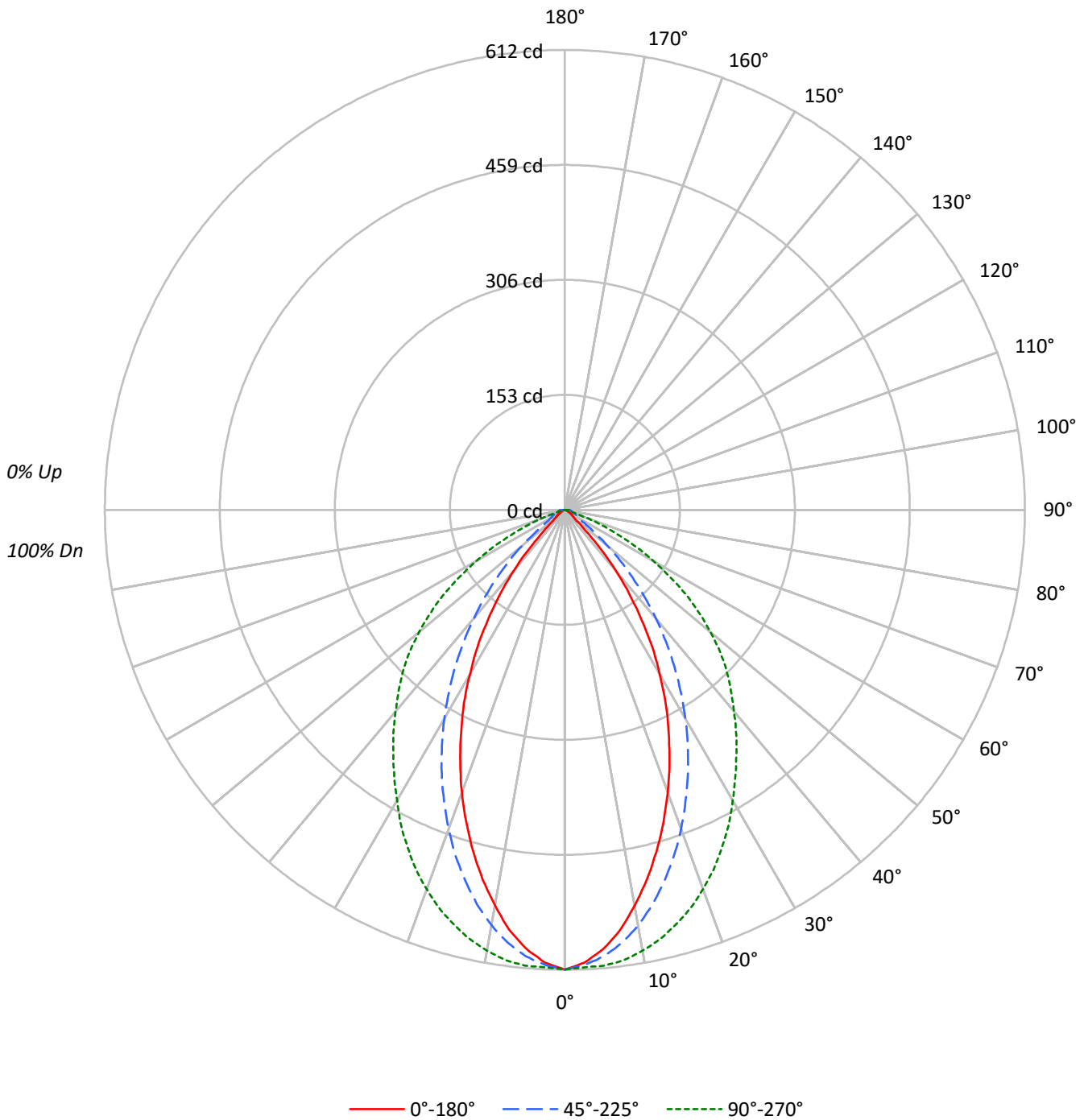
Lumens per Lamp: N/A
Luminaire Lumens: 767.9 lumens
Efficiency: N/A
Efficacy: 29.8 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5268	5268	5268
5°	5071	5155	5261
10°	4676	4911	5208
15°	4197	4558	5093
20°	3668	4144	4924
25°	3103	3681	4704
30°	2506	3191	4440
35°	1866	2666	4183
40°	1184	2113	3935
45°	474	1549	3711
50°	206	987	3387
55°	158	510	2956
60°	112	350	2344
65°	84	346	1602
70°	81	307	735
75°	106	323	296
80°	159	362	322
85°	316	642	484

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3711 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	7.3
10°-20°	144.5	18.8
20°-30°	182.5	23.8
30°-40°	167.6	21.8
40°-50°	114.3	14.9
50°-60°	62.0	8.1
60°-70°	26.3	3.4
70°-80°	9.1	1.2
80°-90°	5.8	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°	382.9	49.9
0°-40°	550.5	71.7
0°-60°	726.7	94.6
0°-90°	767.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	767.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	612	612	612	612	612	
5°	587	596	596	601	609	54
15°	471	486	511	548	571	131
25°	327	348	387	447	495	149
35°	178	201	254	333	398	110
45°	39	62	127	225	305	36
55°	10	11	34	124	197	9
65°	4	5	17	39	79	4
75°	3	9	10	9	9	3
85°	3	6	6	6	5	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	611.8	611.8	611.8	611.8	611.8
2.5°	602.9	610.2	606.1	607.8	609.4
5°	586.7	595.6	596.4	601.3	608.6
7.5°	564.0	574.5	581.0	593.2	604.5
10°	534.8	547.8	561.6	581.0	595.6
12.5°	504.0	517.8	538.1	565.6	585.1
15°	470.8	486.2	511.3	547.8	571.3
17.5°	436.0	453.0	483.0	525.9	555.9
20°	400.3	419.0	452.2	500.8	537.3
22.5°	363.9	383.3	419.8	474.9	517.8
25°	326.6	347.6	387.4	447.3	495.1
27.5°	290.9	310.4	354.1	419.8	472.4
30°	252.0	273.9	320.9	391.4	446.5
32.5°	216.4	237.4	286.9	362.2	422.2
35°	177.5	201.0	253.6	333.1	397.9
37.5°	141.0	163.7	221.2	305.5	374.4
40°	105.3	128.8	188.0	278.0	350.1
42.5°	70.5	95.6	156.4	249.6	327.4
45°	38.9	62.4	127.2	225.3	304.7
47.5°	20.3	34.0	99.7	201.0	280.4
50°	15.4	18.6	73.7	174.2	252.8
52.5°	13.0	13.8	50.2	147.5	225.3
55°	10.5	11.3	34.0	124.0	196.9
57.5°	8.1	8.9	24.3	101.3	165.3
60°	6.5	7.3	20.3	77.8	136.1
62.5°	4.9	5.7	19.4	57.5	107.0
65°	4.1	4.9	17.0	38.9	78.6
67.5°	3.2	4.9	14.6	25.1	52.7
70°	3.2	6.5	12.2	16.2	29.2
72.5°	3.2	7.3	10.5	10.5	10.5
75°	3.2	8.9	9.7	8.9	8.9
77.5°	3.2	8.1	8.1	8.1	8.1
80°	3.2	7.3	7.3	7.3	6.5
82.5°	3.2	6.5	7.3	7.3	5.7
85°	3.2	6.5	6.5	6.5	4.9
87.5°	2.4	6.5	6.5	6.5	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)