

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: P1060356

Luminaire Tested: S124RDR-S1195D935-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-75)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D935-X4F0-XX-UDD-BVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

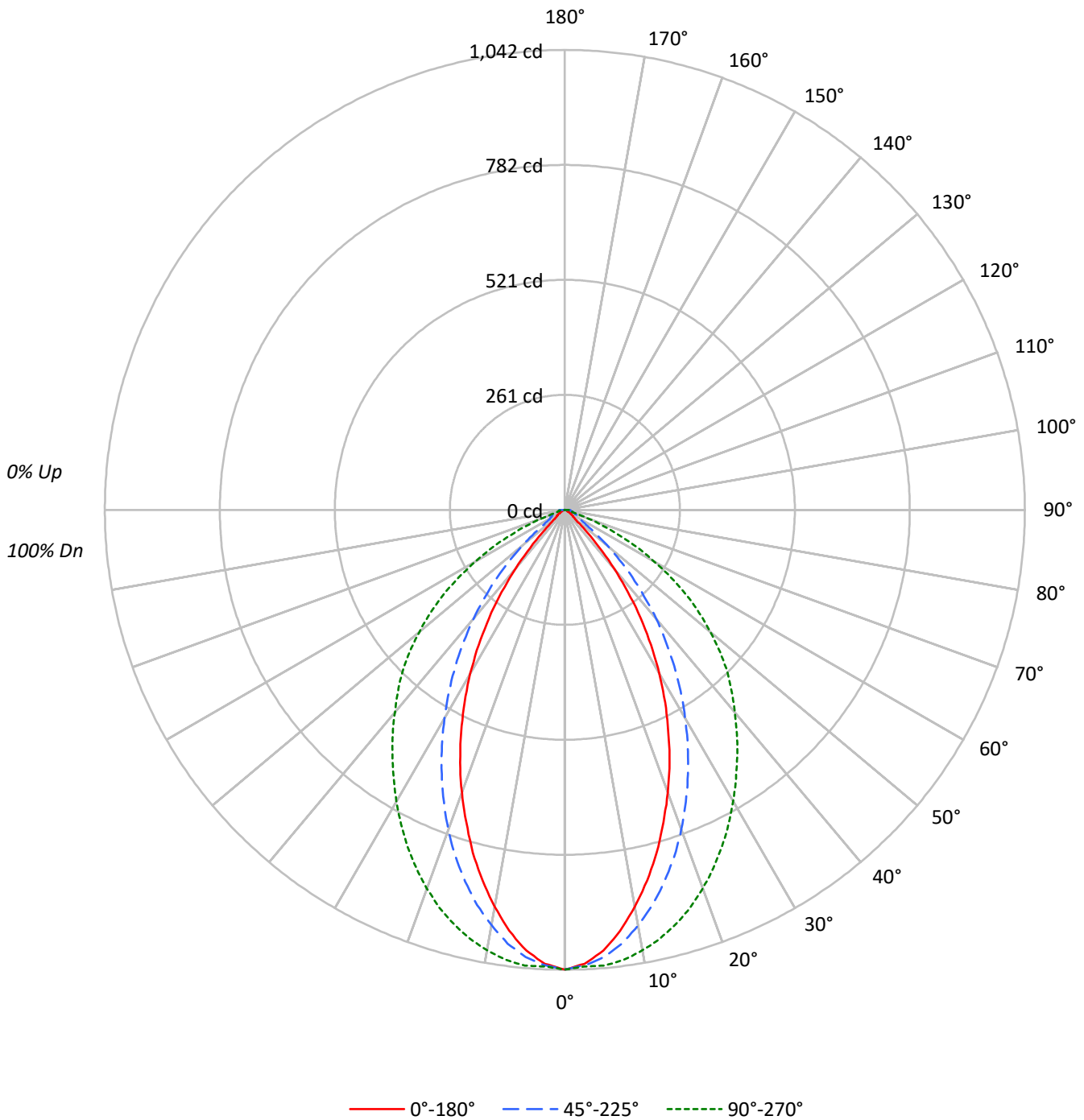
Lumens per Lamp: N/A
Luminaire Lumens: 1312.6 lumens
Efficiency: N/A
Efficacy: 31.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.96
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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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CATALOG NUMBER: S124RDR-S1195D935-X4F0-XX-UDD-BVL-W

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				
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72				
4	91	82	75	70	89	81	75	70	79	73	69	76	72	68	74	70	67	65				
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59				
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54				
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49				
8	71	60	53	48	70	59	52	48	58	52	48	57	51	47	56	51	47	45				
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42				
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8968	8968	8968
5°	8665	8791	8960
10°	7984	8358	8861
15°	7170	7770	8663
20°	6251	7068	8367
25°	5273	6272	8002
30°	4254	5421	7585
35°	3148	4536	7158
40°	1951	3614	6733
45°	775	2635	6341
50°	344	1654	5765
55°	275	863	5047
60°	189	653	4021
65°	124	648	2765
70°	123	584	1292
75°	163	569	569
80°	243	664	664
85°	484	1324	968

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6341 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	7.3
10°-20°	246.6	18.8
20°-30°	311.2	23.7
30°-40°	285.5	21.8
40°-50°	194.5	14.8
50°-60°	105.9	8.1
60°-70°	45.8	3.5
70°-80°	16.7	1.3
80°-90°	10.7	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°	653.3	49.8
0°-40°	938.9	71.5
0°-60°	1239.3	94.4
0°-90°	1312.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1312.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1002	1016	1017	1028	1037	93
15°	804	832	872	934	972	224
25°	555	594	660	765	842	254
35°	300	344	432	568	681	185
45°	64	106	216	384	521	59
55°	18	20	58	212	336	16
65°	6	9	32	66	136	7
75°	5	16	17	17	17	5
85°	5	11	13	13	10	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1041.5	1041.5	1041.5	1041.5	1041.5
2.5°	1029.3	1041.5	1032.9	1035.4	1035.4
5°	1002.4	1015.8	1017.0	1028.0	1036.6
7.5°	962.0	981.6	991.4	1013.4	1028.0
10°	913.1	936.4	955.9	993.8	1013.4
12.5°	860.6	887.5	916.8	966.9	995.0
15°	804.3	832.5	871.6	933.9	971.8
17.5°	742.0	776.2	823.9	898.5	944.9
20°	682.1	716.3	771.3	855.7	913.1
22.5°	619.8	655.2	716.3	810.5	878.9
25°	555.0	594.1	660.1	765.2	842.2
27.5°	491.4	533.0	602.6	717.5	803.1
30°	427.8	469.4	545.2	668.7	762.8
32.5°	363.1	405.8	487.7	617.3	721.2
35°	299.5	343.5	431.5	568.4	680.9
37.5°	234.7	281.2	375.3	520.7	640.5
40°	173.6	220.0	321.5	473.1	599.0
42.5°	116.1	162.6	266.5	426.6	559.9
45°	63.6	106.3	216.4	383.8	520.7
47.5°	34.2	58.7	167.5	342.3	476.7
50°	25.7	31.8	123.5	298.3	430.3
52.5°	22.0	24.4	85.6	251.8	383.8
55°	18.3	19.6	57.5	211.5	336.2
57.5°	14.7	15.9	42.8	171.1	284.8
60°	11.0	13.4	37.9	132.0	233.5
62.5°	8.6	11.0	35.4	96.6	184.6
65°	6.1	8.6	31.8	66.0	135.7
67.5°	6.1	9.8	26.9	42.8	91.7
70°	4.9	13.4	23.2	28.1	51.3
72.5°	4.9	14.7	19.6	19.6	19.6
75°	4.9	15.9	17.1	17.1	17.1
77.5°	4.9	14.7	15.9	14.7	14.7
80°	4.9	13.4	13.4	13.4	13.4
82.5°	4.9	12.2	13.4	13.4	11.0
85°	4.9	11.0	13.4	13.4	9.8
87.5°	3.7	11.0	12.2	12.2	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)