

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: P1061493

Luminaire Tested: S125RDR-S1090D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D935-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

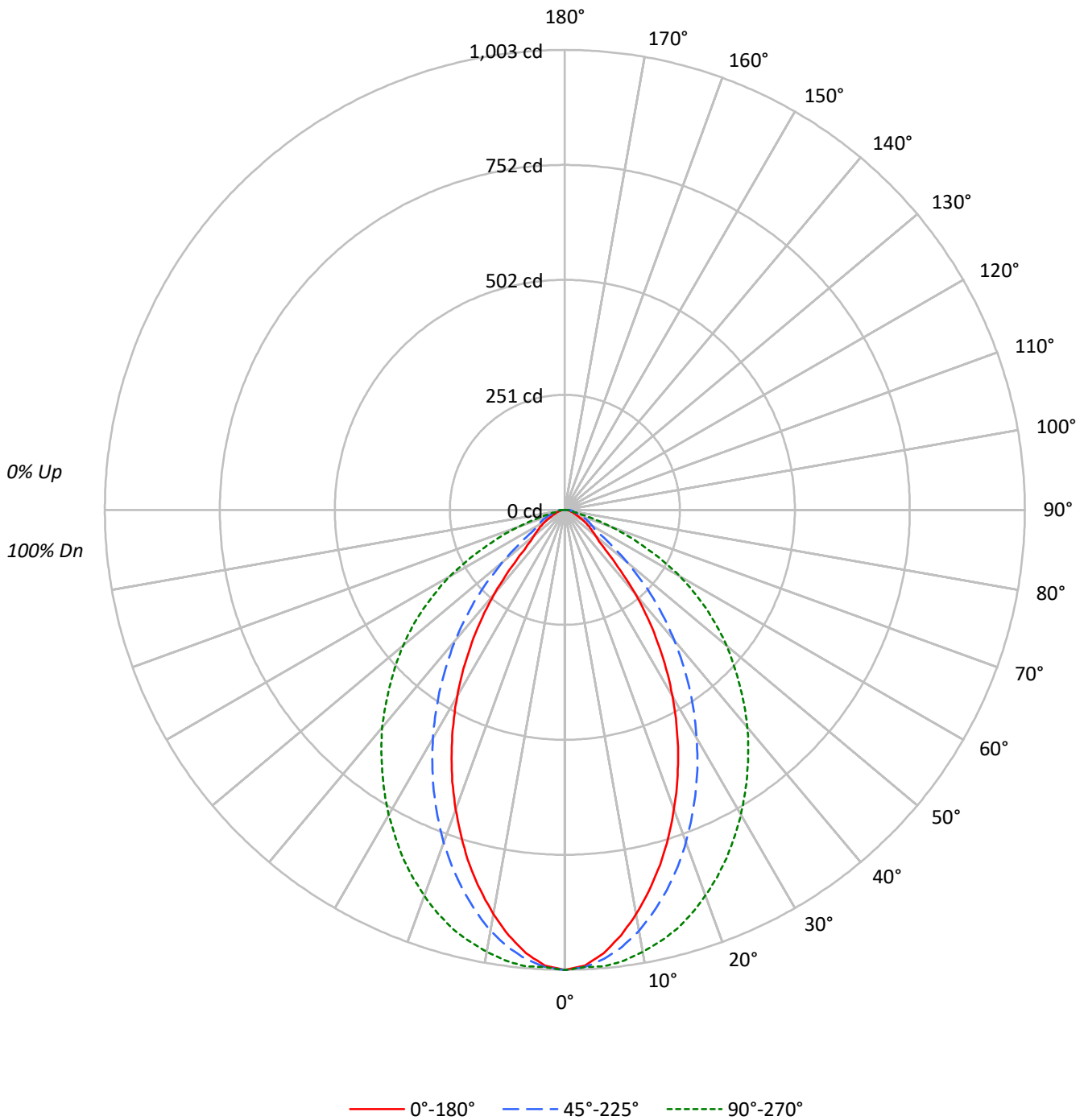
Lumens per Lamp: N/A
Luminaire Lumens: 1453.4 lumens
Efficiency: N/A
Efficacy: 41.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89																												
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																												
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																												
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62																												
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56																												
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51																												
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																												
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42																												
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39																												
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6909	6909	6909
5°	6706	6795	6905
10°	6262	6515	6844
15°	5716	6119	6742
20°	5094	5657	6563
25°	4439	5136	6351
30°	3730	4569	6104
35°	2966	3971	5835
40°	2137	3335	5568
45°	1267	2648	5243
50°	936	1884	4934
55°	793	1164	4518
60°	646	939	3980
65°	503	868	3144
70°	429	751	2104
75°	396	652	851
80°	424	678	591
85°	506	1011	671

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5243 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	6.4
10°-20°	242.9	16.7
20°-30°	317.5	21.8
30°-40°	309.3	21.3
40°-50°	231.9	16.0
50°-60°	145.4	10.0
60°-70°	75.7	5.2
70°-80°	27.4	1.9
80°-90°	10.9	0.7
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°	652.8	44.9
0°-40°	962.1	66.2
0°-60°	1339.4	92.2
0°-90°	1453.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1453.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	970	983	983	991	999	90
15°	802	825	858	912	946	224
25°	584	616	676	768	836	267
35°	353	390	472	598	694	219
45°	130	168	272	420	538	109
55°	66	69	97	254	376	59
65°	31	33	53	102	193	32
75°	15	20	24	26	32	16
85°	6	11	13	12	8	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1003.4	1003.4	1003.4	1003.4	1003.4
2.5°	994.9	1004.5	998.1	998.1	998.1
5°	970.3	983.1	983.1	990.6	999.1
7.5°	936.2	951.1	960.7	978.9	991.7
10°	895.7	913.8	931.9	961.8	978.9
12.5°	849.8	871.2	896.8	938.3	963.9
15°	801.9	825.3	858.4	911.7	945.8
17.5°	749.6	777.3	816.8	880.8	922.3
20°	695.2	723.0	772.0	844.5	895.7
22.5°	640.8	670.7	724.0	806.1	866.9
25°	584.3	616.3	676.0	767.7	836.0
27.5°	526.8	559.8	625.9	728.3	801.9
30°	469.2	503.3	574.7	685.6	767.7
32.5°	411.6	447.8	523.6	641.9	731.5
35°	352.9	390.3	472.4	598.2	694.2
37.5°	296.4	333.8	421.2	553.4	656.8
40°	237.8	278.3	371.1	508.6	619.5
42.5°	180.2	221.8	321.0	463.8	579.0
45°	130.1	168.5	271.9	420.1	538.5
47.5°	100.2	121.6	221.8	375.3	499.0
50°	87.4	93.8	175.9	333.8	460.6
52.5°	75.7	80.0	132.2	295.4	419.1
55°	66.1	69.3	97.0	253.8	376.4
57.5°	55.4	59.7	76.8	213.3	332.7
60°	46.9	49.0	68.2	175.9	289.0
62.5°	38.4	40.5	60.8	138.6	239.9
65°	30.9	33.1	53.3	102.4	193.0
67.5°	25.6	26.7	44.8	72.5	148.2
70°	21.3	22.4	37.3	50.1	104.5
72.5°	18.1	21.3	29.9	36.3	66.1
75°	14.9	20.3	24.5	25.6	32.0
77.5°	12.8	19.2	20.3	20.3	18.1
80°	10.7	16.0	17.1	16.0	14.9
82.5°	8.5	12.8	13.9	13.9	11.7
85°	6.4	10.7	12.8	11.7	8.5
87.5°	4.3	9.6	10.7	9.6	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)