

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: P1061832

Luminaire Tested: S125RDR-S850D950-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S850D950-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

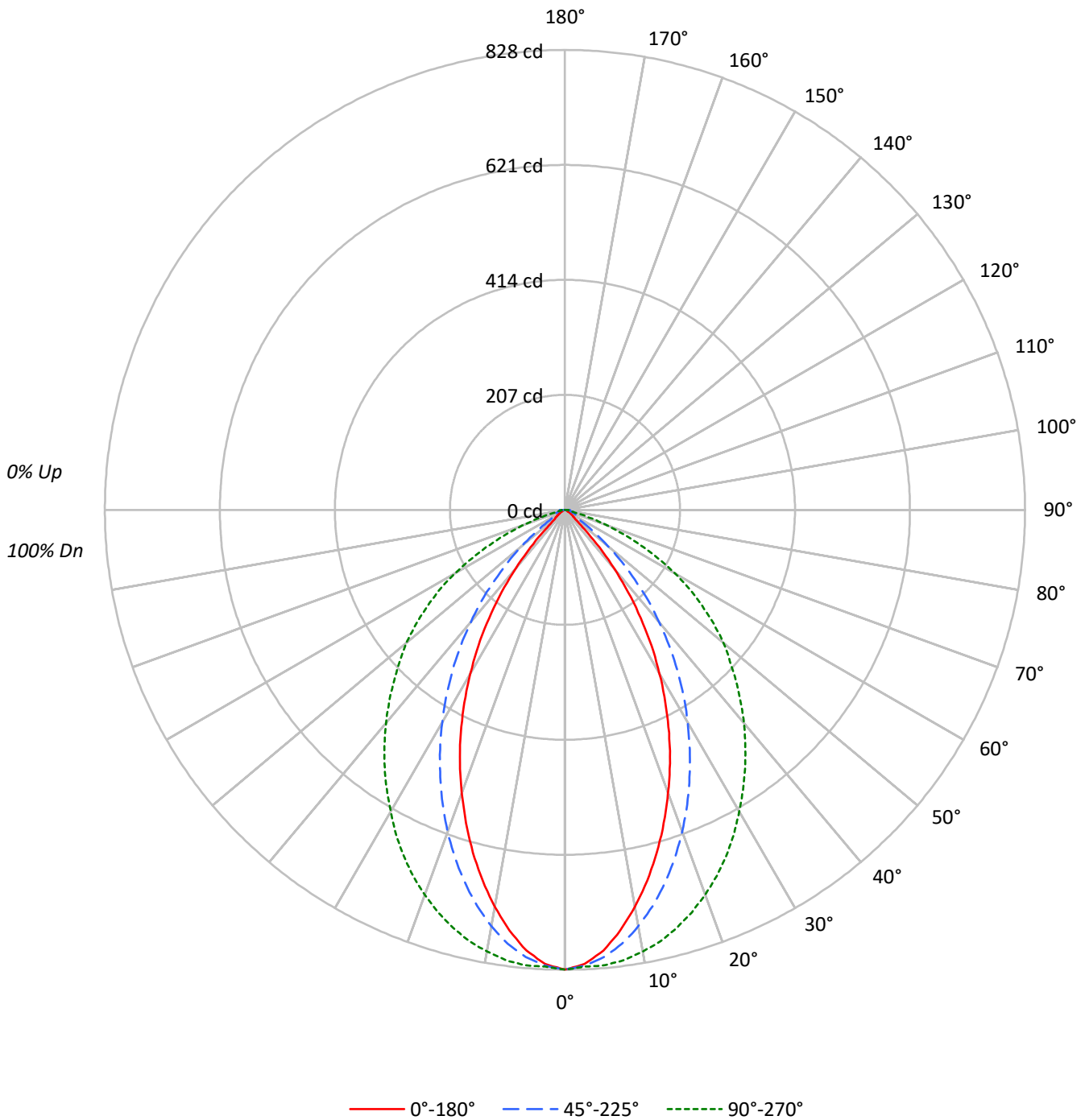
Lumens per Lamp: N/A
Luminaire Lumens: 1070.7 lumens
Efficiency: N/A
Efficacy: 41.5 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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				
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59				
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53				
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49				
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45				
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41				
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5698	5698	5698
5°	5504	5587	5688
10°	5072	5323	5644
15°	4556	4955	5551
20°	3975	4521	5404
25°	3367	4031	5218
30°	2705	3509	4986
35°	2002	2960	4753
40°	1239	2364	4504
45°	484	1728	4235
50°	226	1083	3989
55°	166	463	3620
60°	114	329	3140
65°	75	344	2442
70°	74	314	1536
75°	98	319	489
80°	147	365	329
85°	221	727	506

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4235 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	7.1
10°-20°	196.6	18.4
20°-30°	250.5	23.4
30°-40°	233.1	21.8
40°-50°	160.5	15.0
50°-60°	90.8	8.5
60°-70°	42.9	4.0
70°-80°	13.4	1.3
80°-90°	7.0	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°	523.0	48.8
0°-40°	756.1	70.6
0°-60°	1007.4	94.1
0°-90°	1070.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1070.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	796	807	808	816	823	74
15°	639	660	695	748	779	178
25°	443	472	531	620	687	202
35°	238	271	352	473	566	147
45°	50	79	178	321	435	47
55°	14	16	39	185	302	13
65°	5	6	21	66	150	5
75°	4	8	12	13	18	4
85°	3	7	9	8	6	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	827.6	827.6	827.6	827.6	827.6
2.5°	818.4	826.7	821.1	822.1	823.0
5°	796.3	807.3	808.3	815.6	823.0
7.5°	764.1	777.9	788.0	805.5	817.5
10°	725.5	742.1	761.4	789.9	807.3
12.5°	684.1	703.4	730.1	770.6	795.4
15°	639.1	660.2	695.2	747.6	778.8
17.5°	591.3	615.2	657.5	720.0	759.5
20°	542.5	568.3	617.0	688.7	737.5
22.5°	493.8	520.5	574.7	654.7	713.6
25°	443.2	471.7	530.6	619.8	686.9
27.5°	391.7	421.1	486.4	583.9	658.4
30°	340.2	371.5	441.4	547.1	627.1
32.5°	289.7	320.9	397.2	510.3	596.8
35°	238.2	271.3	352.2	472.6	565.5
37.5°	186.7	222.5	308.0	434.0	533.3
40°	137.9	172.0	263.0	396.3	501.1
42.5°	92.0	125.1	222.5	358.6	468.0
45°	49.7	79.1	177.5	320.9	434.9
47.5°	26.7	42.3	138.8	284.1	402.8
50°	21.1	23.9	101.1	250.1	372.4
52.5°	17.5	19.3	66.2	217.9	337.5
55°	13.8	15.6	38.6	184.8	301.6
57.5°	11.0	12.9	24.8	153.6	266.7
60°	8.3	10.1	23.9	123.2	228.0
62.5°	6.4	7.4	22.1	94.7	187.6
65°	4.6	5.5	21.1	66.2	149.9
67.5°	3.7	4.6	19.3	42.3	112.2
70°	3.7	3.7	15.6	27.6	76.3
72.5°	3.7	6.4	13.8	18.4	46.0
75°	3.7	8.3	12.0	12.9	18.4
77.5°	3.7	9.2	10.1	10.1	10.1
80°	3.7	8.3	9.2	9.2	8.3
82.5°	3.7	7.4	8.3	9.2	7.4
85°	2.8	7.4	9.2	8.3	6.4
87.5°	2.8	7.4	8.3	7.4	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)