

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: P1061462

Luminaire Tested: S125RDR-S1090D850-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D850-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

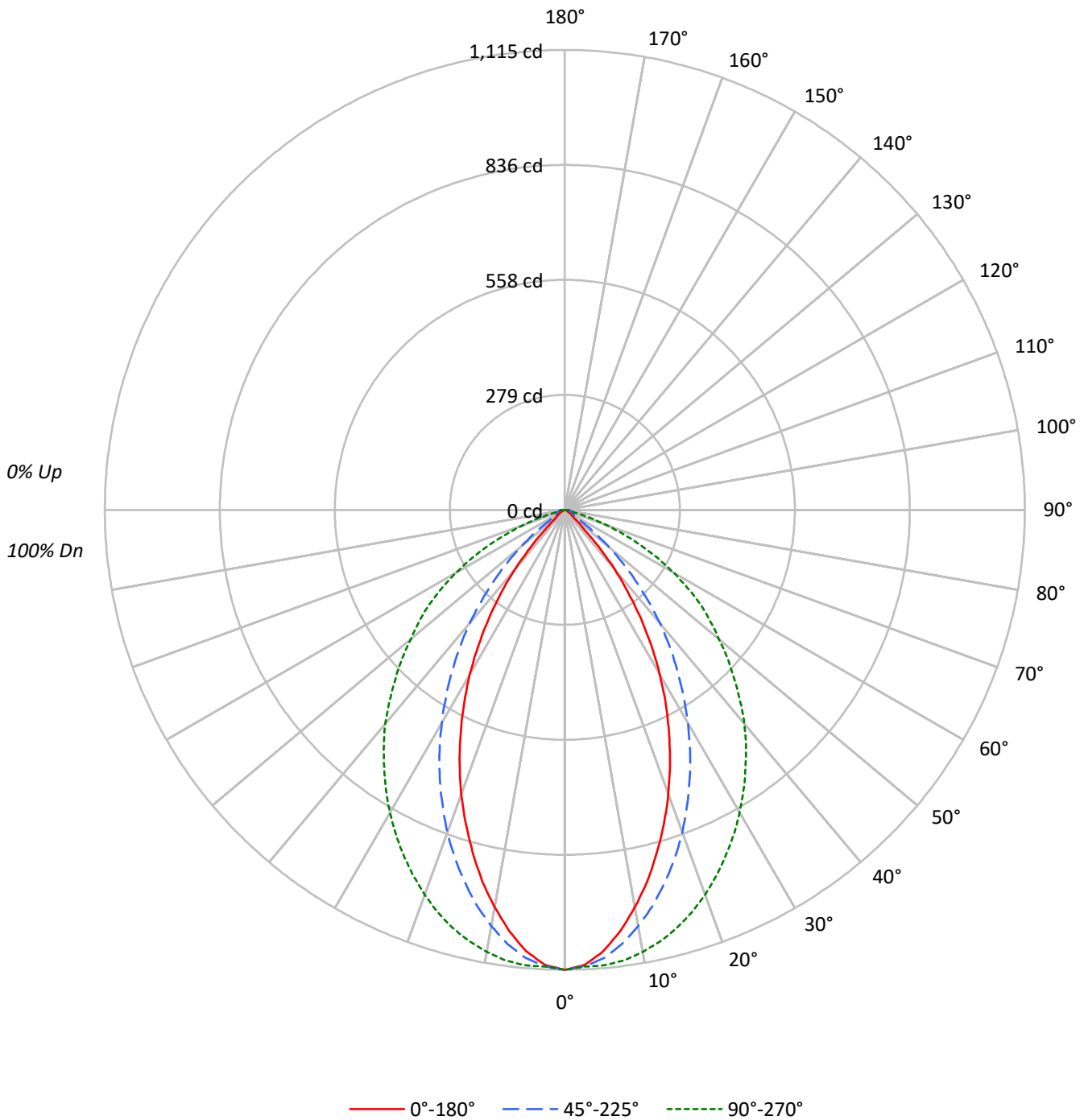
Lumens per Lamp: N/A
Luminaire Lumens: 1434.4 lumens
Efficiency: N/A
Efficacy: 41.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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									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	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	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	68	74	70	67	65																												
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59																												
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54																												
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49																												
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45																												
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42																												
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7678	7678	7678
5°	7423	7537	7661
10°	6837	7163	7605
15°	6138	6667	7480
20°	5374	6098	7276
25°	4538	5446	7022
30°	3658	4739	6737
35°	2690	3994	6418
40°	1679	3222	6086
45°	629	2353	5657
50°	295	1471	5223
55°	215	610	4830
60°	151	321	4179
65°	90	380	3312
70°	83	443	2102
75°	109	439	657
80°	163	543	492
85°	324	869	648

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5657 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	7.1
10°-20°	264.7	18.5
20°-30°	337.3	23.5
30°-40°	313.9	21.9
40°-50°	215.1	15.0
50°-60°	118.4	8.3
60°-70°	56.1	3.9
70°-80°	17.6	1.2
80°-90°	9.0	0.6
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°	704.3	49.1
0°-40°	1018.2	71.0
0°-60°	1351.7	94.2
0°-90°	1434.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1434.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1074	1088	1090	1099	1108	99
15°	861	889	935	1005	1049	240
25°	597	634	717	832	924	273
35°	320	365	475	632	764	198
45°	65	108	242	428	581	62
55°	18	21	51	239	402	16
65°	6	7	23	88	203	6
75°	4	7	16	18	25	4
85°	4	10	11	10	8	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1115.2	1115.2	1115.2	1115.2	1115.2
2.5°	1104.2	1115.2	1107.0	1107.0	1108.4
5°	1074.0	1087.8	1090.5	1098.7	1108.4
7.5°	1030.1	1047.9	1061.7	1085.0	1101.5
10°	977.9	999.9	1024.6	1063.0	1087.8
12.5°	922.9	946.3	983.4	1036.9	1071.3
15°	861.1	888.6	935.3	1005.4	1049.3
17.5°	798.0	828.2	885.9	968.3	1023.2
20°	733.4	765.0	832.3	924.3	993.0
22.5°	666.1	700.5	774.6	879.0	960.0
25°	597.4	634.5	716.9	832.3	924.3
27.5°	528.8	567.2	657.9	784.2	887.2
30°	460.1	499.9	596.1	734.8	847.4
32.5°	390.1	434.0	535.6	685.3	806.2
35°	320.0	365.3	475.2	631.8	763.6
37.5°	251.3	298.0	416.1	581.0	721.1
40°	186.8	233.5	358.5	530.1	677.1
42.5°	120.9	170.3	298.0	478.0	629.0
45°	64.6	108.5	241.7	428.5	581.0
47.5°	34.3	57.7	188.2	379.1	535.6
50°	27.5	31.6	137.3	329.6	487.6
52.5°	22.0	24.7	87.9	278.8	445.0
55°	17.9	20.6	50.8	239.0	402.4
57.5°	13.7	16.5	28.8	199.1	353.0
60°	11.0	12.4	23.3	159.3	303.5
62.5°	6.9	9.6	23.3	123.6	254.1
65°	5.5	6.9	23.3	87.9	203.3
67.5°	5.5	5.5	23.3	57.7	152.5
70°	4.1	4.1	22.0	37.1	104.4
72.5°	4.1	4.1	19.2	24.7	60.4
75°	4.1	6.9	16.5	17.9	24.7
77.5°	4.1	11.0	15.1	15.1	13.7
80°	4.1	11.0	13.7	12.4	12.4
82.5°	4.1	11.0	11.0	11.0	9.6
85°	4.1	9.6	11.0	9.6	8.2
87.5°	4.1	9.6	9.6	9.6	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)