

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: P1061833

Luminaire Tested: S125RDR-S850D950-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S850D950-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

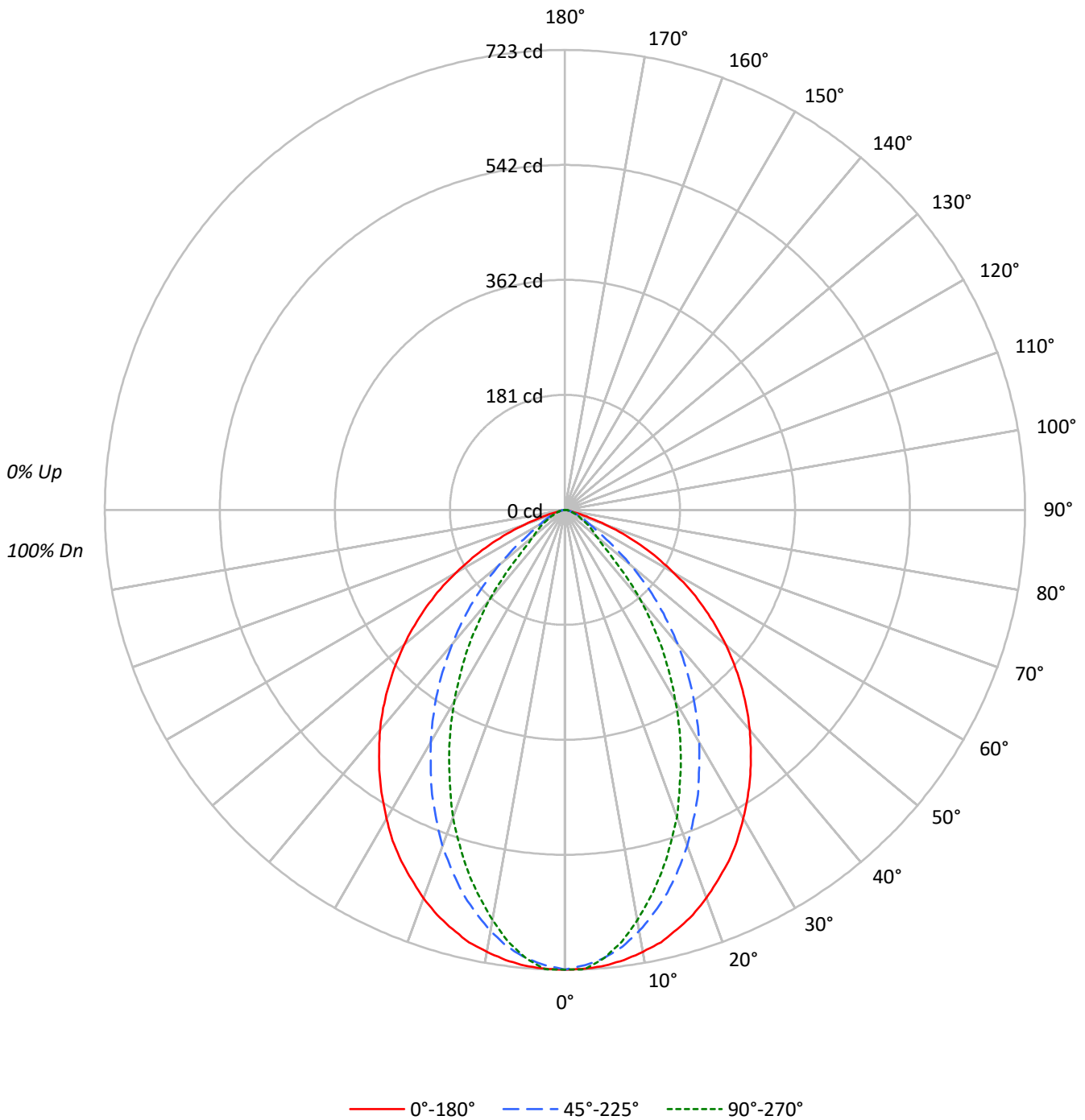
Lumens per Lamp: N/A
Luminaire Lumens: 1045.5 lumens
Efficiency: N/A
Efficacy: 40.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4977	4977	4977
5°	4971	4889	4889
10°	4932	4701	4579
15°	4865	4439	4197
20°	4759	4119	3769
25°	4627	3754	3273
30°	4455	3352	2760
35°	4270	2934	2239
40°	4063	2477	1659
45°	3819	1985	1002
50°	3533	1457	689
55°	3187	893	574
60°	2707	607	456
65°	2141	464	358
70°	1351	332	296
75°	439	245	245
80°	147	182	218
85°	71	142	142

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3819 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	6.4
10°-20°	176.6	16.9
20°-30°	232.3	22.2
30°-40°	228.2	21.8
40°-50°	172.7	16.5
50°-60°	104.7	10.0
60°-70°	49.4	4.7
70°-80°	12.9	1.2
80°-90°	1.9	0.2
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°	475.7	45.5
0°-40°	703.9	67.3
0°-60°	981.3	93.9
0°-90°	1045.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1045.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	723	723	723	723	723	
5°	719	717	707	708	707	68
15°	682	664	623	599	589	192
25°	609	563	494	448	431	280
35°	508	440	349	288	266	317
45°	392	309	204	130	103	302
55°	266	182	74	50	48	236
65°	131	67	28	24	22	129
75°	16	11	9	9	9	26
85°	1	1	2	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	722.9	722.9	722.9	722.9	722.9
2.5°	722.0	722.0	716.5	722.9	722.9
5°	719.3	717.4	707.3	708.2	707.3
7.5°	713.8	710.1	692.6	688.0	684.4
10°	705.5	698.1	672.4	661.4	655.0
12.5°	696.3	683.4	648.5	632.9	622.8
15°	682.5	664.2	622.8	598.9	588.8
17.5°	667.8	641.2	592.5	564.0	551.2
20°	649.5	618.2	562.2	527.3	514.4
22.5°	629.2	592.5	527.3	488.7	471.2
25°	609.0	563.1	494.2	448.3	430.8
27.5°	586.1	533.7	456.5	408.8	389.5
30°	560.4	504.3	421.6	372.0	347.2
32.5°	534.6	474.0	384.9	330.7	305.9
35°	508.0	440.0	349.1	287.5	266.4
37.5°	479.5	407.9	312.3	248.0	223.2
40°	452.0	375.7	275.6	207.6	184.6
42.5°	422.6	343.6	238.8	168.1	142.4
45°	392.2	308.7	203.9	129.5	102.9
47.5°	361.0	277.4	169.0	95.5	77.2
50°	329.8	244.4	136.0	70.7	64.3
52.5°	297.6	212.2	102.9	58.8	56.0
55°	265.5	181.9	74.4	50.5	47.8
57.5°	232.4	148.8	56.0	43.2	40.4
60°	196.6	119.4	44.1	35.8	33.1
62.5°	163.5	93.7	35.8	29.4	27.6
65°	131.4	67.1	28.5	23.9	22.0
67.5°	98.3	45.0	22.0	18.4	18.4
70°	67.1	29.4	16.5	14.7	14.7
72.5°	40.4	17.5	11.9	11.9	11.9
75°	16.5	11.0	9.2	9.2	9.2
77.5°	5.5	6.4	6.4	7.3	7.3
80°	3.7	3.7	4.6	5.5	5.5
82.5°	1.8	2.8	2.8	3.7	3.7
85°	0.9	0.9	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)