

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: P1061591

Luminaire Tested: S125RDR-S1270D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D950-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

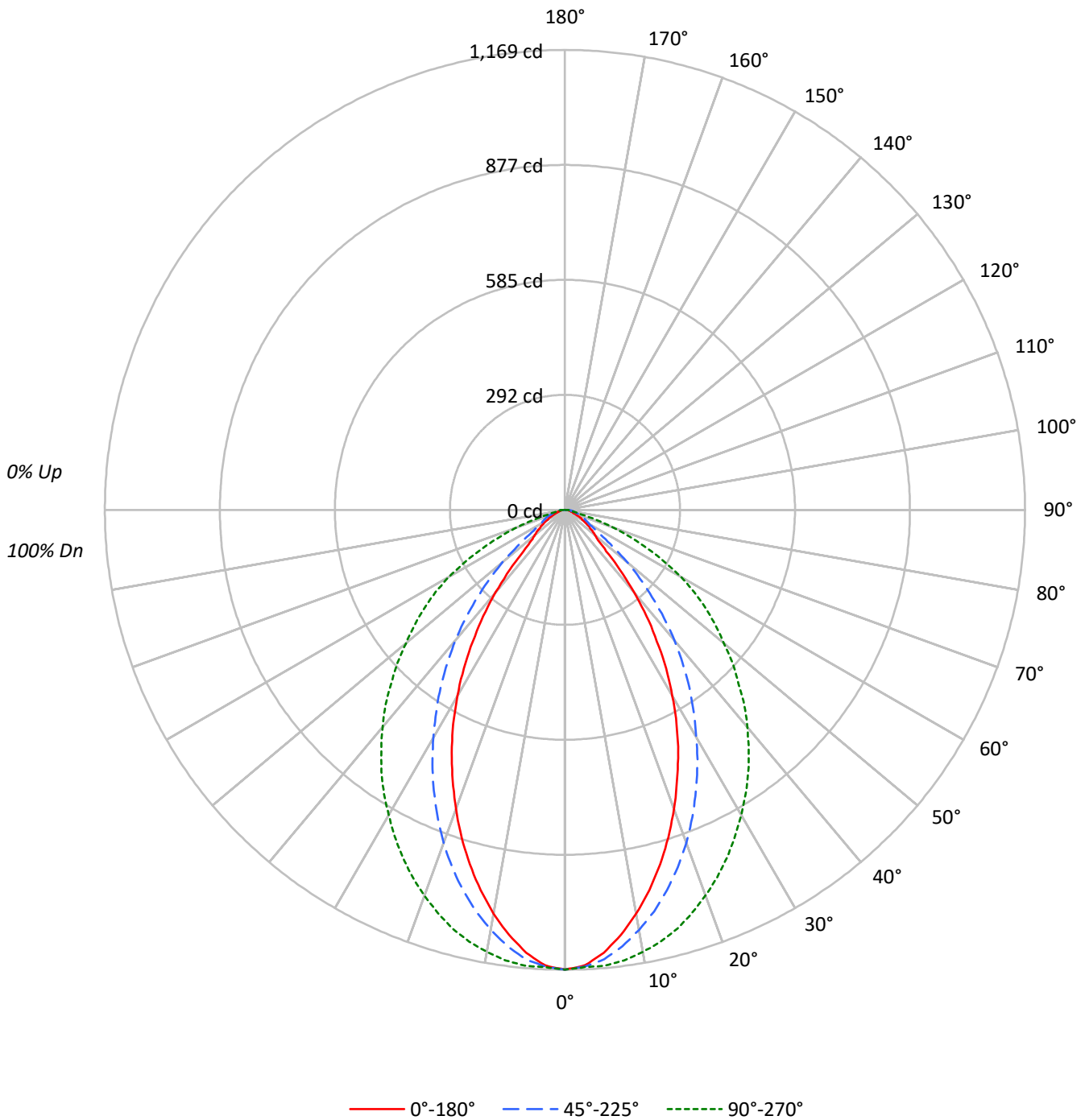
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1687.5 lumens
Efficiency: N/A
Efficacy: 40.4 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): 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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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	106	103	100	101	99	97	98	96	94	94	93	91	89																												
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																												
3	96	88	81	76	94	87	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	63																												
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56																												
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	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	41	39																												
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8047	8047	8047
5°	7809	7924	8040
10°	7289	7579	7977
15°	6651	7135	7857
20°	5932	6602	7649
25°	5171	5982	7404
30°	4343	5312	7120
35°	3426	4626	6828
40°	2455	3887	6479
45°	1444	3051	6075
50°	1069	2198	5643
55°	899	1331	5242
60°	726	974	4678
65°	565	925	3749
70°	475	866	2541
75°	442	774	1107
80°	440	769	714
85°	545	987	766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6075 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	6.4
10°-20°	282.9	16.8
20°-30°	369.7	21.9
30°-40°	359.9	21.3
40°-50°	269.0	15.9
50°-60°	166.8	9.9
60°-70°	87.6	5.2
70°-80°	31.9	1.9
80°-90°	12.0	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°	760.3	45.1
0°-40°	1120.2	66.4
0°-60°	1555.9	92.2
0°-90°	1687.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1687.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1169	1169	1169	1169	1169	
5°	1130	1145	1146	1153	1163	105
15°	933	961	1001	1062	1102	260
25°	681	715	787	894	975	311
35°	408	452	550	697	812	254
45°	148	194	313	489	624	125
55°	75	79	111	288	437	67
65°	35	37	57	122	230	36
75°	17	19	29	32	42	18
85°	7	12	12	12	10	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1168.7	1168.7	1168.7	1168.7	1168.7
2.5°	1159.0	1168.7	1161.8	1161.8	1163.2
5°	1129.9	1145.1	1146.5	1153.4	1163.2
7.5°	1089.7	1107.7	1118.8	1139.6	1154.8
10°	1042.5	1063.3	1084.1	1118.8	1141.0
12.5°	989.9	1014.8	1045.3	1092.4	1124.3
15°	933.0	960.7	1000.9	1061.9	1102.2
17.5°	873.4	902.5	952.4	1025.9	1074.4
20°	809.6	841.5	901.1	984.3	1043.9
22.5°	744.5	780.5	845.7	939.9	1010.7
25°	680.7	715.4	787.4	894.2	974.6
27.5°	614.2	650.2	729.2	847.1	935.8
30°	546.2	585.0	668.2	798.5	895.6
32.5°	478.3	518.5	608.6	748.6	855.4
35°	407.6	452.0	550.4	697.3	812.4
37.5°	341.0	388.2	490.8	644.7	766.7
40°	273.1	321.6	432.5	593.4	720.9
42.5°	206.6	256.5	372.9	540.7	675.2
45°	148.3	194.1	313.3	489.4	623.9
47.5°	113.7	140.0	257.9	436.7	578.1
50°	99.8	108.1	205.2	385.4	526.8
52.5°	87.3	92.9	152.5	335.5	482.5
55°	74.9	79.0	110.9	288.4	436.7
57.5°	63.8	67.9	84.6	245.4	389.6
60°	52.7	56.8	70.7	202.4	339.7
62.5°	44.4	45.7	63.8	162.2	284.2
65°	34.7	37.4	56.8	122.0	230.1
67.5°	29.1	30.5	49.9	87.3	177.5
70°	23.6	25.0	43.0	61.0	126.2
72.5°	20.8	20.8	36.0	44.4	80.4
75°	16.6	19.4	29.1	31.9	41.6
77.5°	13.9	19.4	25.0	23.6	22.2
80°	11.1	18.0	19.4	19.4	18.0
82.5°	9.7	15.2	16.6	15.2	13.9
85°	6.9	12.5	12.5	12.5	9.7
87.5°	5.5	11.1	9.7	9.7	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)