

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: P1061594

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D950-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

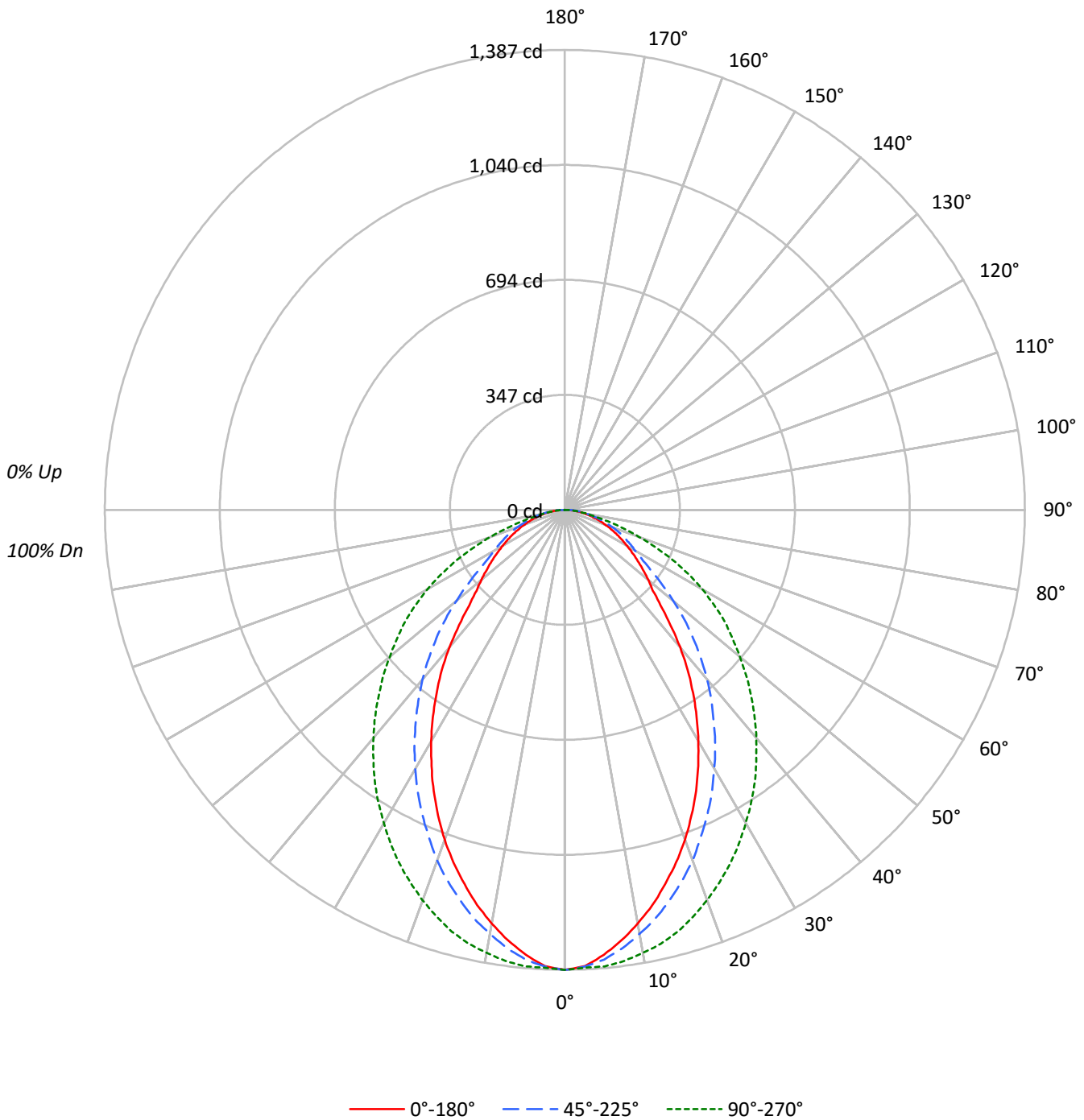
Lumens per Lamp: N/A
Luminaire Lumens: 2600.9 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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									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			100																
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86			86																
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74			74																
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64			64																
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56			56																
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50			50																
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44			44																
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40			40																
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36			36																
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33			33																
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30			30																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9553	9553	9553
5°	9311	9407	9551
10°	8857	9080	9487
15°	8329	8694	9386
20°	7759	8247	9181
25°	7108	7719	8950
30°	6402	7163	8672
35°	5662	6582	8399
40°	4858	5992	8072
45°	3968	5331	7733
50°	3519	4573	7379
55°	3228	3793	7072
60°	2977	3359	6585
65°	2778	3229	5872
70°	2595	3070	4799
75°	2397	2876	3541
80°	2252	2692	2581
85°	2078	2631	2188

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7733 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	4.9
10°-20°	345.9	13.3
20°-30°	475.3	18.3
30°-40°	503.7	19.4
40°-50°	439.7	16.9
50°-60°	334.1	12.8
60°-70°	223.8	8.6
70°-80°	115.4	4.4
80°-90°	34.6	1.3
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°	949.6	36.5
0°-40°	1453.3	55.9
0°-60°	2227.1	85.6
0°-90°	2600.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2600.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1387	1387	1387	1387	1387	
5°	1347	1361	1361	1371	1382	126
15°	1168	1191	1220	1274	1317	328
25°	936	965	1016	1100	1178	429
35°	674	712	783	894	999	420
45°	408	448	548	678	794	322
55°	269	277	316	464	589	241
65°	170	175	198	265	360	169
75°	90	96	108	115	133	97
85°	26	33	33	30	28	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.4	1387.4	1387.4	1387.4	1387.4
2.5°	1377.7	1387.4	1379.1	1379.1	1381.9
5°	1347.2	1361.1	1361.1	1370.8	1381.9
7.5°	1309.8	1325.0	1333.4	1355.5	1372.2
10°	1266.8	1283.5	1298.7	1332.0	1356.9
12.5°	1221.1	1239.1	1262.7	1305.6	1340.3
15°	1168.4	1190.6	1219.7	1273.8	1316.7
17.5°	1115.7	1137.9	1174.0	1237.7	1286.2
20°	1058.9	1082.5	1125.5	1194.8	1253.0
22.5°	997.9	1024.3	1070.0	1149.0	1216.9
25°	935.6	964.7	1016.0	1100.5	1178.1
27.5°	870.4	905.1	960.5	1050.6	1136.5
30°	805.3	839.9	900.9	999.3	1090.8
32.5°	740.1	777.6	844.1	948.0	1046.4
35°	673.6	712.4	783.1	894.0	999.3
37.5°	608.5	647.3	726.3	841.3	948.0
40°	540.5	580.7	666.7	787.3	898.1
42.5°	471.2	514.2	607.1	731.8	846.9
45°	407.5	447.7	547.5	677.8	794.2
47.5°	360.4	386.7	487.9	622.3	742.9
50°	328.5	342.3	426.9	568.3	688.9
52.5°	296.6	307.7	370.1	512.8	637.6
55°	268.9	277.2	316.0	464.3	589.1
57.5°	241.2	249.5	274.4	415.8	532.2
60°	216.2	223.1	243.9	364.5	478.2
62.5°	192.7	198.2	220.4	316.0	420.0
65°	170.5	174.6	198.2	264.7	360.4
67.5°	148.3	152.5	176.0	216.2	296.6
70°	128.9	130.3	152.5	176.0	238.4
72.5°	109.5	110.9	128.9	142.8	183.0
75°	90.1	95.6	108.1	115.0	133.1
77.5°	73.5	80.4	87.3	90.1	90.1
80°	56.8	65.1	67.9	67.9	65.1
82.5°	41.6	48.5	49.9	47.1	44.4
85°	26.3	33.3	33.3	30.5	27.7
87.5°	12.5	18.0	18.0	16.6	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)