

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: P1061558

Luminaire Tested: S125RDR-S1270D927-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061558
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-S1270D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

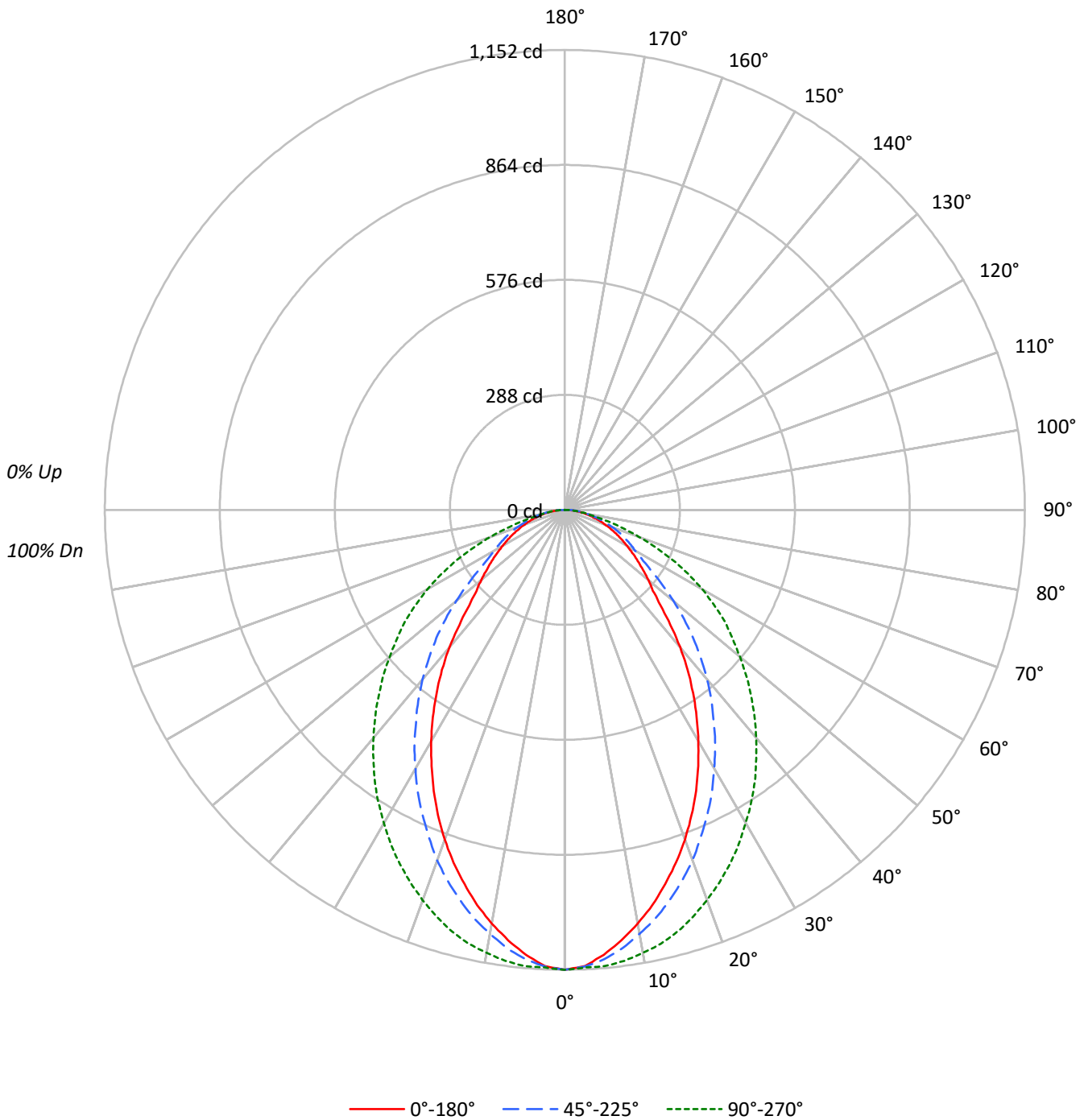
Lumens per Lamp: N/A
Luminaire Lumens: 2159.7 lumens
Efficiency: N/A
Efficacy: 51.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7932	7932	7932
5°	7732	7811	7931
10°	7354	7540	7878
15°	6916	7219	7794
20°	6443	6848	7623
25°	5902	6409	7432
30°	5316	5948	7201
35°	4701	5466	6975
40°	4035	4976	6703
45°	3295	4427	6422
50°	2922	3797	6127
55°	2681	3150	5871
60°	2472	2790	5468
65°	2307	2682	4875
70°	2154	2549	3986
75°	1990	2389	2940
80°	1872	2236	2145
85°	1730	2180	1817

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6422 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	4.9
10°-20°	287.2	13.3
20°-30°	394.7	18.3
30°-40°	418.3	19.4
40°-50°	365.1	16.9
50°-60°	277.4	12.8
60°-70°	185.9	8.6
70°-80°	95.8	4.4
80°-90°	28.7	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°	788.5	36.5
0°-40°	1206.8	55.9
0°-60°	1849.3	85.6
0°-90°	2159.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2159.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1152	1152	1152	1152	1152	
5°	1119	1130	1130	1138	1148	105
15°	970	989	1013	1058	1093	272
25°	777	801	844	914	978	356
35°	559	592	650	742	830	349
45°	338	372	455	563	660	267
55°	223	230	262	386	489	200
65°	142	145	165	220	299	140
75°	75	79	90	96	110	80
85°	22	28	28	25	23	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1152.1	1152.1	1152.1	1152.1	1152.1
2.5°	1144.0	1152.1	1145.2	1145.2	1147.5
5°	1118.7	1130.2	1130.2	1138.3	1147.5
7.5°	1087.6	1100.3	1107.2	1125.6	1139.4
10°	1051.9	1065.8	1078.4	1106.0	1126.8
12.5°	1014.0	1028.9	1048.5	1084.2	1112.9
15°	970.2	988.6	1012.8	1057.7	1093.4
17.5°	926.5	944.9	974.8	1027.8	1068.1
20°	879.3	898.9	934.6	992.1	1040.4
22.5°	828.7	850.5	888.5	954.1	1010.5
25°	776.9	801.0	843.6	913.8	978.3
27.5°	722.8	751.6	797.6	872.4	943.8
30°	668.7	697.5	748.1	829.8	905.8
32.5°	614.6	645.7	700.9	787.2	868.9
35°	559.3	591.6	650.3	742.3	829.8
37.5°	505.3	537.5	603.1	698.6	787.2
40°	448.9	482.2	553.6	653.7	745.8
42.5°	391.3	427.0	504.1	607.7	703.2
45°	338.4	371.7	454.6	562.8	659.5
47.5°	299.2	321.1	405.1	516.8	616.9
50°	272.8	284.3	354.5	471.9	572.0
52.5°	246.3	255.5	307.3	425.8	529.4
55°	223.3	230.2	262.4	385.6	489.1
57.5°	200.3	207.2	227.9	345.3	442.0
60°	179.5	185.3	202.6	302.7	397.1
62.5°	160.0	164.6	183.0	262.4	348.7
65°	141.6	145.0	164.6	219.8	299.2
67.5°	123.1	126.6	146.2	179.5	246.3
70°	107.0	108.2	126.6	146.2	198.0
72.5°	90.9	92.1	107.0	118.5	151.9
75°	74.8	79.4	89.8	95.5	110.5
77.5°	61.0	66.8	72.5	74.8	74.8
80°	47.2	54.1	56.4	56.4	54.1
82.5°	34.5	40.3	41.4	39.1	36.8
85°	21.9	27.6	27.6	25.3	23.0
87.5°	10.4	15.0	15.0	13.8	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)