

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 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: S125RDRP-S1270D927-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

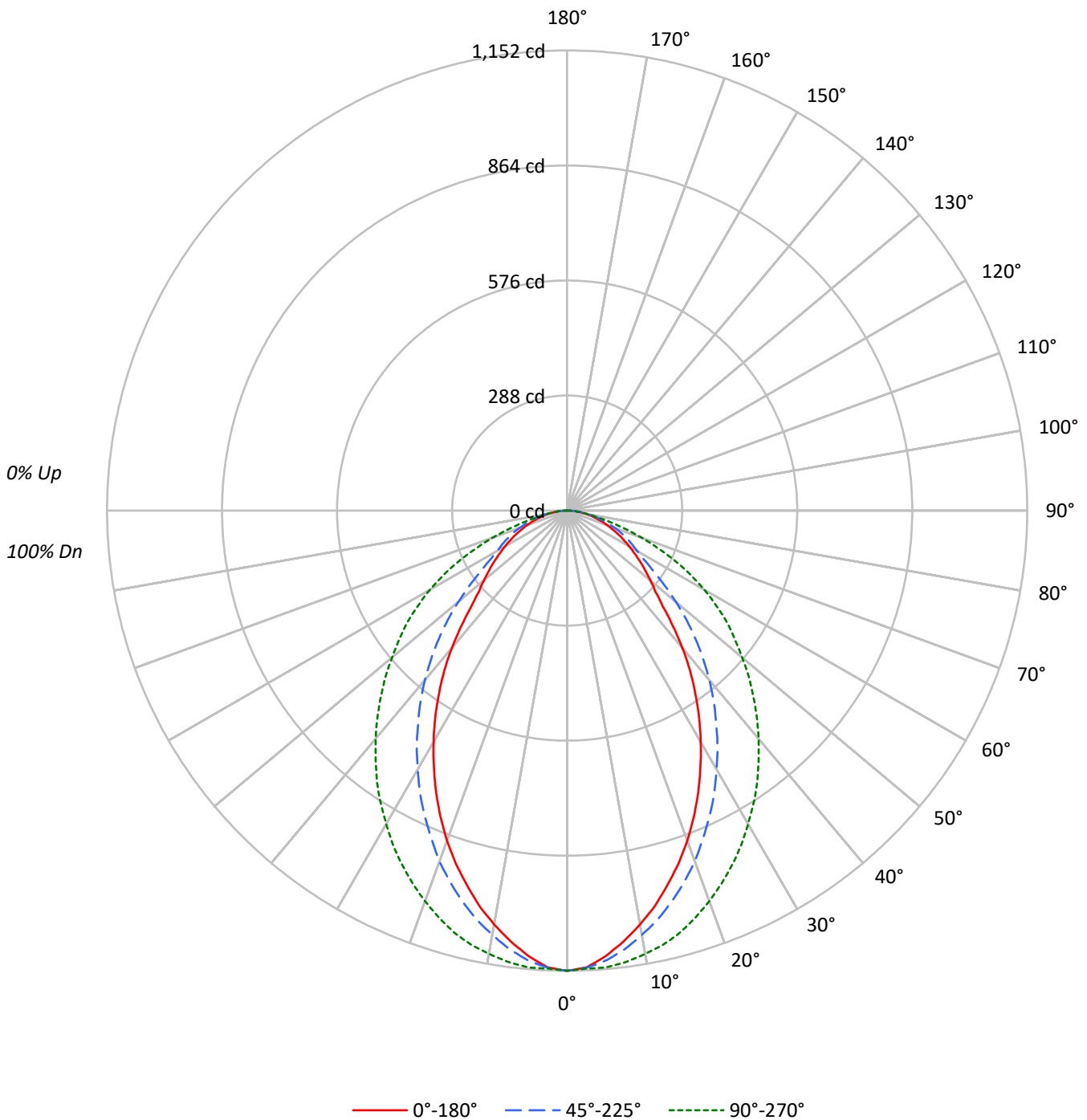
Lumens per Lamp: N/A
Luminaire Lumens: 2159.7 lumens
Efficiency: N/A
Efficacy: 51.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (A_{in}): 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	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



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.80	15.30	14.17	15.61	15.93	17.73	19.23	18.10	19.54	19.86
	3H	15.37	16.72	15.75	17.04	17.41	19.15	20.49	19.53	20.82	21.18
	4H	15.99	17.25	16.39	17.59	17.97	19.57	20.83	19.97	21.17	21.55
	6H	16.48	17.64	16.89	18.01	18.40	19.78	20.95	20.20	21.31	21.71
	8H	16.66	17.76	17.08	18.15	18.55	19.84	20.95	20.27	21.34	21.74
	12H	16.78	17.84	17.21	18.22	18.65	19.88	20.94	20.31	21.32	21.75
4H	2H	14.54	15.80	14.94	16.15	16.53	17.86	19.12	18.26	19.46	19.84
	3H	16.32	17.36	16.73	17.76	18.16	19.47	20.51	19.88	20.91	21.31
	4H	17.05	17.99	17.49	18.41	18.85	19.99	20.93	20.43	21.35	21.79
	6H	17.69	18.51	18.15	18.95	19.41	20.34	21.15	20.79	21.60	22.06
	8H	17.92	18.68	18.38	19.13	19.59	20.43	21.20	20.90	21.64	22.11
	12H	18.09	18.77	18.57	19.25	19.72	20.51	21.19	20.99	21.67	22.14
8H	4H	17.45	18.22	17.92	18.66	19.13	20.10	20.86	20.56	21.31	21.78
	6H	18.24	18.87	18.74	19.36	19.84	20.54	21.17	21.04	21.66	22.14
	8H	18.56	19.13	19.08	19.64	20.13	20.70	21.26	21.21	21.77	22.26
	12H	18.84	19.34	19.35	19.83	20.40	20.83	21.33	21.34	21.82	22.39
12H	4H	17.50	18.18	17.98	18.66	19.13	20.10	20.78	20.58	21.26	21.73
	6H	18.32	18.89	18.84	19.40	19.89	20.55	21.12	21.07	21.63	22.12
	8H	18.72	19.22	19.23	19.71	20.28	20.76	21.26	21.27	21.76	22.32