

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: P1061591

Luminaire Tested: S125RDRP-S1270D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

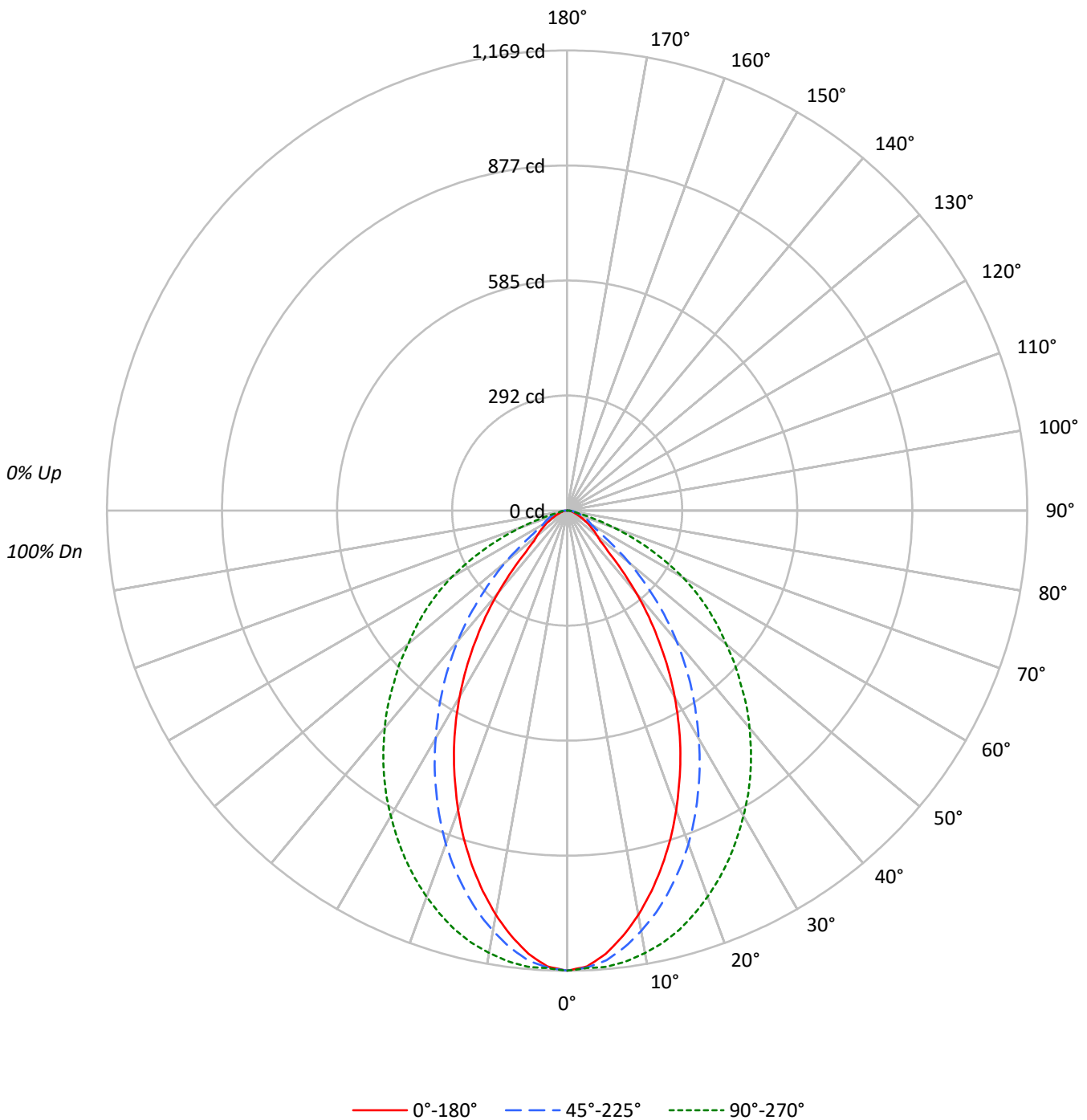
Lumens per Lamp: N/A
Luminaire Lumens: 1687.5 lumens
Efficiency: N/A
Efficacy: 40.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (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	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

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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	7.03	8.38	7.39	8.69	9.01	16.74	18.09	17.10	18.40	18.71
	3H	7.87	9.07	8.25	9.40	9.76	17.65	18.85	18.03	19.18	19.54
	4H	8.23	9.35	8.63	9.70	10.08	17.75	18.86	18.15	19.21	19.60
	6H	8.60	9.63	9.02	10.00	10.39	17.73	18.76	18.15	19.13	19.52
	8H	8.78	9.76	9.21	10.15	10.55	17.72	18.69	18.15	19.08	19.49
	12H	8.95	9.88	9.38	10.26	10.69	17.71	18.64	18.14	19.02	19.45
4H	2H	7.86	8.98	8.26	9.33	9.71	16.59	17.70	16.99	18.05	18.44
	3H	8.92	9.83	9.33	10.24	10.64	17.58	18.49	17.99	18.89	19.30
	4H	9.37	10.19	9.81	10.61	11.05	17.70	18.52	18.14	18.94	19.38
	6H	9.93	10.64	10.39	11.08	11.55	17.74	18.44	18.20	18.89	19.36
	8H	10.19	10.85	10.66	11.30	11.77	17.74	18.40	18.21	18.84	19.31
	12H	10.43	11.01	10.92	11.50	11.97	17.75	18.33	18.23	18.81	19.29
8H	4H	9.93	10.59	10.40	11.03	11.50	17.63	18.29	18.10	18.74	19.21
	6H	10.71	11.25	11.21	11.74	12.22	17.69	18.23	18.19	18.73	19.21
	8H	11.12	11.61	11.64	12.12	12.61	17.72	18.20	18.24	18.72	19.21
	12H	11.54	11.96	12.05	12.46	13.03	17.77	18.20	18.29	18.69	19.27
12H	4H	9.99	10.57	10.47	11.05	11.53	17.60	18.18	18.08	18.66	19.14
	6H	10.85	11.33	11.37	11.85	12.34	17.66	18.14	18.18	18.66	19.15
	8H	11.38	11.80	11.89	12.30	12.87	17.72	18.15	18.24	18.64	19.21