

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: P1061511

Luminaire Tested: S125RDRP-S1090D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1090D950-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

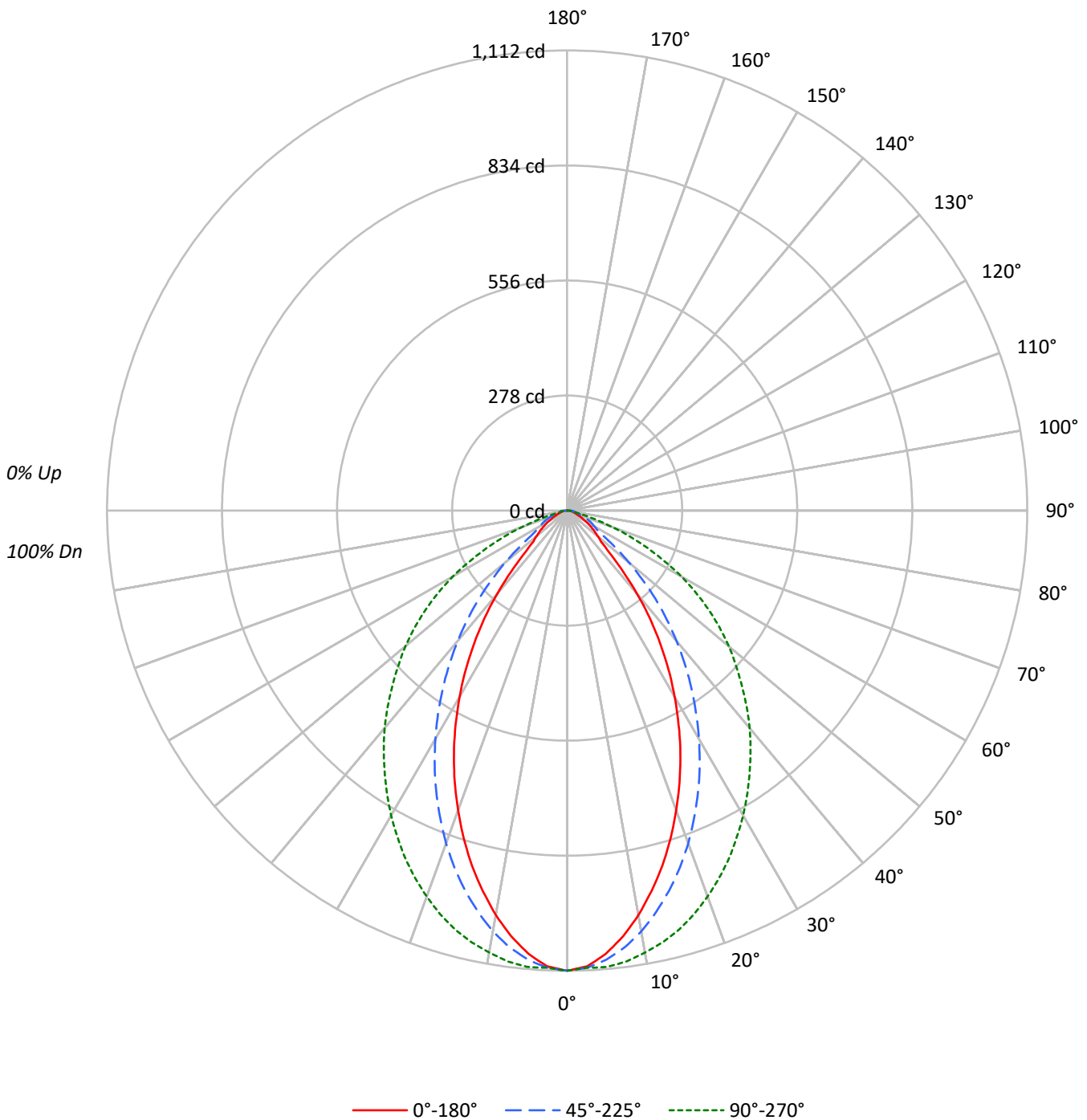
Lumens per Lamp: N/A
Luminaire Lumens: 1610.4 lumens
Efficiency: N/A
Efficacy: 46.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79					79			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62					62			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56					56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51					51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46					46			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42					42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7655	7655	7655
5°	7431	7529	7651
10°	6938	7219	7583
15°	6333	6780	7470
20°	5644	6268	7271
25°	4918	5691	7037
30°	4133	5063	6763
35°	3287	4399	6465
40°	2368	3696	6169
45°	1403	2934	5809
50°	1038	2088	5467
55°	880	1290	5007
60°	716	1041	4409
65°	559	963	3483
70°	475	833	2331
75°	439	724	942
80°	468	749	654
85°	561	1122	750

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5809 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	6.4
10°-20°	269.1	16.7
20°-30°	351.7	21.8
30°-40°	342.7	21.3
40°-50°	257.0	16.0
50°-60°	161.1	10.0
60°-70°	83.9	5.2
70°-80°	30.3	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°	723.3	44.9
0°-40°	1066.0	66.2
0°-60°	1484.1	92.2
0°-90°	1610.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1610.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1075	1089	1089	1098	1107	100
15°	888	914	951	1010	1048	248
25°	647	683	749	851	926	296
35°	391	432	523	663	769	243
45°	144	187	301	466	597	121
55°	73	77	108	281	417	65
65°	34	37	59	113	214	35
75°	16	22	27	28	35	18
85°	7	12	14	13	10	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.8	1111.8	1111.8	1111.8	1111.8
2.5°	1102.3	1113.0	1105.9	1105.9	1105.9
5°	1075.1	1089.3	1089.3	1097.6	1107.0
7.5°	1037.3	1053.9	1064.5	1084.6	1098.8
10°	992.4	1012.5	1032.6	1065.7	1084.6
12.5°	941.6	965.3	993.6	1039.7	1068.1
15°	888.5	914.5	951.1	1010.2	1048.0
17.5°	830.6	861.3	905.0	975.9	1022.0
20°	770.3	801.0	855.4	935.7	992.4
22.5°	710.1	743.1	802.2	893.2	960.5
25°	647.4	682.9	749.1	850.7	926.3
27.5°	583.6	620.3	693.5	806.9	888.5
30°	519.8	557.7	636.8	759.7	850.7
32.5°	456.0	496.2	580.1	711.2	810.5
35°	391.1	432.4	523.4	662.8	769.1
37.5°	328.5	369.8	466.7	613.2	727.8
40°	263.5	308.4	411.2	563.6	686.4
42.5°	199.7	245.7	355.6	513.9	641.5
45°	144.1	186.7	301.3	465.5	596.6
47.5°	111.1	134.7	245.7	415.9	552.9
50°	96.9	104.0	194.9	369.8	510.4
52.5°	83.9	88.6	146.5	327.3	464.3
55°	73.3	76.8	107.5	281.2	417.1
57.5°	61.4	66.2	85.1	236.3	368.6
60°	52.0	54.3	75.6	194.9	320.2
62.5°	42.5	44.9	67.3	153.6	265.8
65°	34.3	36.6	59.1	113.4	213.8
67.5°	28.4	29.5	49.6	80.3	164.2
70°	23.6	24.8	41.4	55.5	115.8
72.5°	20.1	23.6	33.1	40.2	73.3
75°	16.5	22.4	27.2	28.4	35.4
77.5°	14.2	21.3	22.4	22.4	20.1
80°	11.8	17.7	18.9	17.7	16.5
82.5°	9.5	14.2	15.4	15.4	13.0
85°	7.1	11.8	14.2	13.0	9.5
87.5°	4.7	10.6	11.8	10.6	7.1
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	6.99	8.34	7.36	8.66	8.97	16.60	17.95	16.97	18.27	18.58
	3H	7.85	9.05	8.23	9.38	9.74	17.44	18.64	17.82	18.97	19.34
	4H	8.27	9.39	8.67	9.74	10.12	17.52	18.64	17.92	18.99	19.37
	6H	8.70	9.73	9.11	10.10	10.49	17.50	18.53	17.91	18.90	19.29
	8H	8.88	9.85	9.31	10.24	10.65	17.49	18.46	17.92	18.85	19.26
	12H	9.04	9.97	9.47	10.36	10.79	17.48	18.41	17.91	18.79	19.22
4H	2H	7.95	9.07	8.36	9.42	9.81	16.47	17.58	16.87	17.94	18.32
	3H	9.01	9.92	9.42	10.33	10.73	17.38	18.29	17.79	18.70	19.10
	4H	9.57	10.39	10.00	10.80	11.25	17.48	18.30	17.91	18.72	19.16
	6H	10.17	10.87	10.63	11.32	11.79	17.50	18.21	17.97	18.66	19.12
	8H	10.41	11.07	10.87	11.51	11.98	17.51	18.17	17.97	18.61	19.08
	12H	10.63	11.22	11.12	11.70	12.17	17.52	18.10	18.00	18.59	19.06
8H	4H	10.04	10.70	10.51	11.15	11.62	17.40	18.06	17.87	18.51	18.98
	6H	10.85	11.39	11.35	11.89	12.37	17.46	18.00	17.96	18.49	18.97
	8H	11.23	11.72	11.75	12.23	12.72	17.49	17.98	18.01	18.49	18.98
	12H	11.63	12.05	12.14	12.55	13.12	17.55	17.98	18.07	18.48	19.05
12H	4H	10.09	10.67	10.57	11.16	11.63	17.37	17.95	17.85	18.44	18.91
	6H	10.97	11.46	11.49	11.97	12.47	17.42	17.91	17.94	18.42	18.92
	8H	11.46	11.89	11.98	12.39	12.96	17.49	17.92	18.01	18.42	18.99