

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: P1175427

Luminaire Tested: S125RDRP-H610D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H610D950-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

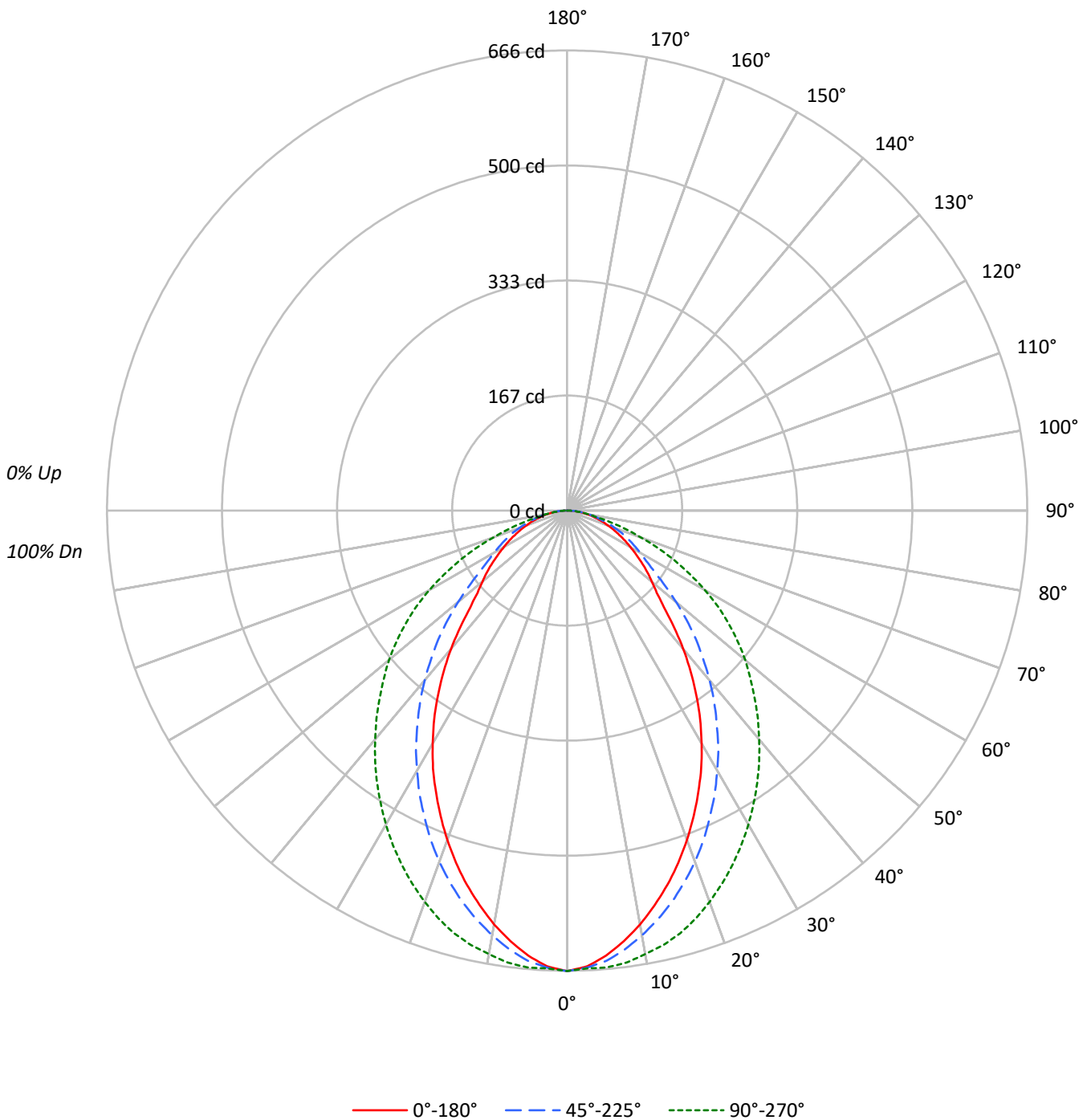
Lumens per Lamp: N/A
Luminaire Lumens: 1255.7 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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	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	73	69	77	72	68	74	70	66	64																												
4	86	75	67	61	84	74	66	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	47	59	52	47	58	51	47	56	51	46	44																												
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40																												
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36																												
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33																												
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4589	4589	4589
5°	4470	4521	4587
10°	4252	4363	4557
15°	3997	4179	4513
20°	3715	3963	4415
25°	3413	3713	4298
30°	3095	3450	4170
35°	2739	3172	4033
40°	2349	2883	3886
45°	1928	2568	3735
50°	1715	2206	3606
55°	1582	1847	3424
60°	1457	1683	3171
65°	1355	1585	2802
70°	1264	1482	2289
75°	1189	1370	1716
80°	1122	1257	1233
85°	1027	1248	1027

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3735 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	4.9
10°-20°	166.3	13.2
20°-30°	228.8	18.2
30°-40°	242.7	19.3
40°-50°	212.4	16.9
50°-60°	163.0	13.0
60°-70°	108.6	8.6
70°-80°	55.7	4.4
80°-90°	16.5	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°	456.8	36.4
0°-40°	699.5	55.7
0°-60°	1074.9	85.6
0°-90°	1255.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1255.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	647	655	654	659	664	61
15°	561	574	586	614	633	157
25°	449	464	489	530	566	206
35°	326	341	377	433	480	203
45°	198	214	264	329	384	156
55°	132	135	154	229	285	118
65°	83	84	97	128	172	83
75°	45	48	52	54	64	48
85°	13	15	16	15	13	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	666.5	666.5	666.5	666.5	666.5
2.5°	660.3	667.1	662.0	662.5	663.1
5°	646.7	655.2	654.1	658.6	663.7
7.5°	628.6	637.7	640.5	651.8	659.7
10°	608.2	618.4	624.1	641.0	651.8
12.5°	585.0	596.9	606.0	628.0	643.9
15°	560.7	573.7	586.2	613.9	633.1
17.5°	534.7	547.7	564.1	595.8	619.0
20°	507.0	521.1	540.9	574.8	602.6
22.5°	478.7	493.4	516.0	553.3	585.0
25°	449.2	464.5	488.8	530.1	565.8
27.5°	420.4	434.5	462.8	507.0	546.0
30°	389.3	404.0	434.0	482.6	524.5
32.5°	358.1	372.9	407.4	458.3	502.4
35°	325.9	341.2	377.4	432.8	479.8
37.5°	293.6	309.5	349.7	406.8	456.6
40°	261.4	278.4	320.8	380.8	432.3
42.5°	228.6	246.7	291.4	355.3	408.5
45°	198.0	214.4	263.7	329.3	383.6
47.5°	176.0	185.6	234.2	302.7	359.8
50°	160.1	164.6	205.9	277.2	336.6
52.5°	146.0	148.8	178.2	253.5	311.2
55°	131.8	134.7	153.9	228.6	285.2
57.5°	118.3	119.9	135.8	203.7	259.1
60°	105.8	106.9	122.2	178.8	230.3
62.5°	94.5	95.1	109.2	153.3	201.4
65°	83.2	83.7	97.3	127.9	172.0
67.5°	73.0	73.0	86.0	104.7	143.7
70°	62.8	62.8	73.6	84.9	113.7
72.5°	53.8	54.9	62.2	68.5	88.8
75°	44.7	47.5	51.5	54.3	64.5
77.5°	36.2	39.6	41.3	42.4	43.0
80°	28.3	30.6	31.7	32.3	31.1
82.5°	20.9	22.6	23.2	23.2	21.5
85°	13.0	14.7	15.8	15.3	13.0
87.5°	6.2	8.5	9.1	7.9	6.2
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	11.91	13.41	12.27	13.72	14.03	15.93	17.43	16.30	17.75	18.06
	3H	13.50	14.84	13.87	15.17	15.53	17.32	18.67	17.70	18.99	19.36
	4H	14.14	15.40	14.54	15.75	16.13	17.73	18.99	18.13	19.34	19.72
	6H	14.65	15.81	15.06	16.18	16.57	17.93	19.10	18.35	19.46	19.86
	8H	14.83	15.94	15.26	16.33	16.73	17.99	19.10	18.42	19.49	19.89
	12H	14.95	16.01	15.38	16.40	16.83	18.02	19.08	18.45	19.47	19.90
4H	2H	12.68	13.94	13.08	14.29	14.67	16.06	17.32	16.46	17.67	18.05
	3H	14.46	15.51	14.87	15.91	16.31	17.63	18.68	18.04	19.08	19.48
	4H	15.23	16.17	15.66	16.59	17.02	18.14	19.09	18.58	19.50	19.94
	6H	15.87	16.69	16.33	17.13	17.59	18.47	19.29	18.93	19.73	20.19
	8H	16.10	16.86	16.56	17.31	17.77	18.57	19.33	19.03	19.78	20.25
	12H	16.27	16.95	16.75	17.43	17.90	18.64	19.33	19.12	19.80	20.28
8H	4H	15.61	16.38	16.08	16.82	17.29	18.24	19.01	18.71	19.45	19.92
	6H	16.39	17.02	16.89	17.51	17.99	18.66	19.30	19.16	19.79	20.26
	8H	16.71	17.27	17.22	17.78	18.27	18.82	19.39	19.34	19.90	20.39
	12H	16.97	17.47	17.48	17.96	18.53	18.96	19.46	19.47	19.95	20.52
12H	4H	15.65	16.34	16.13	16.81	17.29	18.24	18.93	18.72	19.40	19.88
	6H	16.46	17.03	16.98	17.54	18.03	18.67	19.24	19.19	19.75	20.24
	8H	16.85	17.35	17.36	17.84	18.41	18.89	19.39	19.40	19.88	20.44