

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: P1061737

Luminaire Tested: S125RDRP-S610D935-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S610D935-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

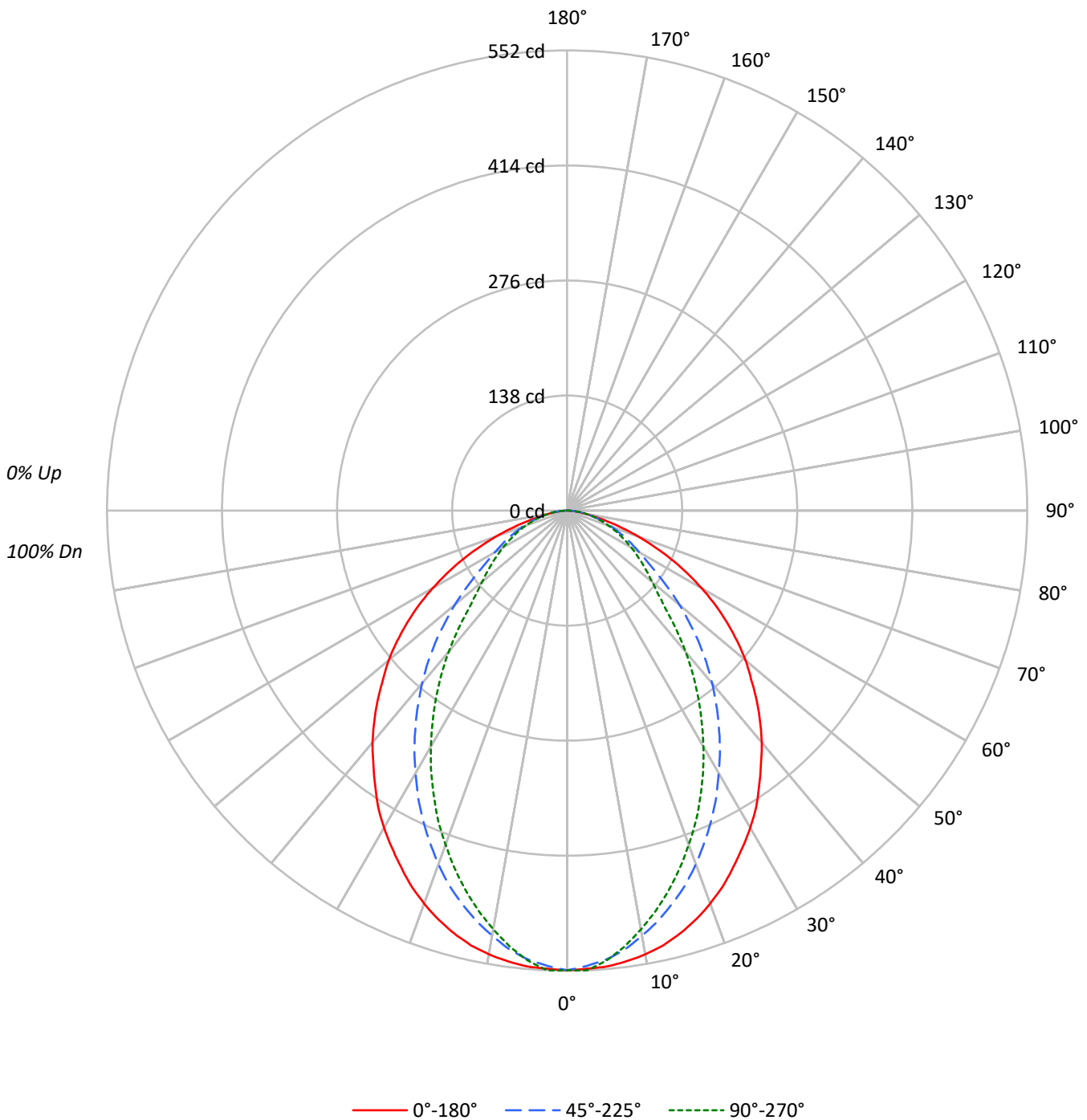
Lumens per Lamp: N/A
Luminaire Lumens: 1044.5 lumens
Efficiency: N/A
Efficacy: 53.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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												100																
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87												87																
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75												75																
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65												65																
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57												57																
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50												50																
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45												45																
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40												40																
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36												36																
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33												33																
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30												30																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3797	3797	3797
5°	3794	3736	3745
10°	3780	3621	3566
15°	3742	3478	3359
20°	3676	3307	3124
25°	3584	3111	2875
30°	3493	2889	2599
35°	3376	2667	2305
40°	3266	2432	1985
45°	3131	2174	1626
50°	2995	1885	1424
55°	2810	1574	1316
60°	2564	1377	1228
65°	2243	1258	1140
70°	1820	1133	1061
75°	1306	1035	987
80°	900	924	924
85°	664	806	853

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3131 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	4.9
10°-20°	138.7	13.3
20°-30°	191.7	18.3
30°-40°	204.1	19.5
40°-50°	179.3	17.2
50°-60°	136.0	13.0
60°-70°	88.3	8.5
70°-80°	43.7	4.2
80°-90°	11.5	1.1
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°	381.6	36.5
0°-40°	585.7	56.1
0°-60°	901.0	86.3
0°-90°	1044.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1044.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	551	551	551	551	551	
5°	549	548	541	542	542	52
15°	525	513	488	477	471	148
25°	472	446	410	388	378	217
35°	402	365	317	289	274	251
45°	322	277	223	183	167	248
55°	234	188	131	113	110	209
65°	138	102	77	71	70	136
75°	49	43	39	38	37	55
85°	8	10	10	10	11	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	551.4	551.4	551.4	551.4	551.4
2.5°	550.2	551.4	546.6	550.8	552.0
5°	549.0	547.8	540.6	542.4	541.8
7.5°	545.4	543.0	531.0	529.8	527.4
10°	540.6	534.6	517.9	513.7	510.1
12.5°	534.0	524.4	504.1	495.7	491.5
15°	525.0	513.1	487.9	476.6	471.2
17.5°	514.3	497.5	471.2	455.6	449.6
20°	501.7	481.9	451.4	433.4	426.3
22.5°	487.9	464.6	430.5	411.3	403.5
25°	471.8	446.0	409.5	388.5	378.4
27.5°	455.6	426.9	387.3	364.0	353.2
30°	439.4	406.5	363.4	338.3	326.9
32.5°	422.1	385.6	341.2	313.7	300.5
35°	401.7	364.6	317.3	288.6	274.2
37.5°	382.0	342.4	294.0	261.6	247.9
40°	363.4	321.5	270.6	235.3	220.9
42.5°	342.4	299.3	247.3	210.1	194.0
45°	321.5	276.6	223.3	183.2	167.0
47.5°	299.3	255.0	198.2	158.7	147.9
50°	279.6	232.9	176.0	140.1	132.9
52.5°	256.8	211.3	153.3	125.7	120.9
55°	234.1	188.0	131.1	113.2	109.6
57.5°	210.7	167.0	113.7	102.4	98.8
60°	186.2	145.5	100.0	91.0	89.2
62.5°	161.6	123.3	88.0	81.4	79.0
65°	137.7	102.4	77.2	71.2	70.0
67.5°	113.2	83.2	66.5	62.3	61.7
70°	90.4	67.7	56.3	53.9	52.7
72.5°	69.4	53.9	47.3	45.5	44.9
75°	49.1	43.1	38.9	37.7	37.1
77.5°	32.9	32.9	31.1	29.9	30.5
80°	22.7	23.9	23.3	23.3	23.3
82.5°	15.0	16.2	16.8	16.8	16.8
85°	8.4	9.6	10.2	10.2	10.8
87.5°	3.0	3.6	4.2	4.8	4.8
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	15.19	16.68	15.55	16.99	17.31	11.43	12.92	11.80	13.24	13.55
	3H	16.50	17.84	16.88	18.16	18.53	13.01	14.35	13.39	14.68	15.04
	4H	16.87	18.12	17.27	18.47	18.85	13.62	14.87	14.02	15.22	15.60
	6H	17.04	18.20	17.46	18.57	18.96	14.09	15.24	14.50	15.61	16.00
	8H	17.08	18.18	17.51	18.57	18.97	14.25	15.35	14.67	15.74	16.14
	12H	17.09	18.15	17.52	18.53	18.96	14.36	15.41	14.79	15.79	16.22
4H	2H	15.30	16.55	15.70	16.90	17.28	12.09	13.34	12.49	13.69	14.07
	3H	16.79	17.82	17.20	18.23	18.63	13.87	14.91	14.29	15.31	15.71
	4H	17.26	18.20	17.70	18.61	19.05	14.59	15.52	15.02	15.94	16.38
	6H	17.55	18.36	18.01	18.80	19.26	15.18	15.99	15.64	16.43	16.89
	8H	17.62	18.37	18.08	18.82	19.29	15.38	16.14	15.85	16.59	17.05
	12H	17.66	18.33	18.14	18.81	19.28	15.54	16.22	16.02	16.69	17.17
8H	4H	17.35	18.10	17.81	18.55	19.01	14.90	15.66	15.37	16.10	16.57
	6H	17.71	18.33	18.21	18.82	19.30	15.61	16.23	16.10	16.72	17.20
	8H	17.82	18.38	18.34	18.90	19.38	15.89	16.45	16.40	16.96	17.45
	12H	17.91	18.41	18.42	18.90	19.47	16.12	16.61	16.63	17.11	17.67
12H	4H	17.34	18.01	17.82	18.49	18.97	14.93	15.60	15.41	16.08	16.55
	6H	17.71	18.27	18.23	18.78	19.27	15.66	16.22	16.17	16.73	17.22
	8H	17.87	18.37	18.38	18.86	19.42	16.00	16.49	16.51	16.98	17.55