

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: P1061733

Luminaire Tested: S125RDRP-S610D935-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S610D935-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

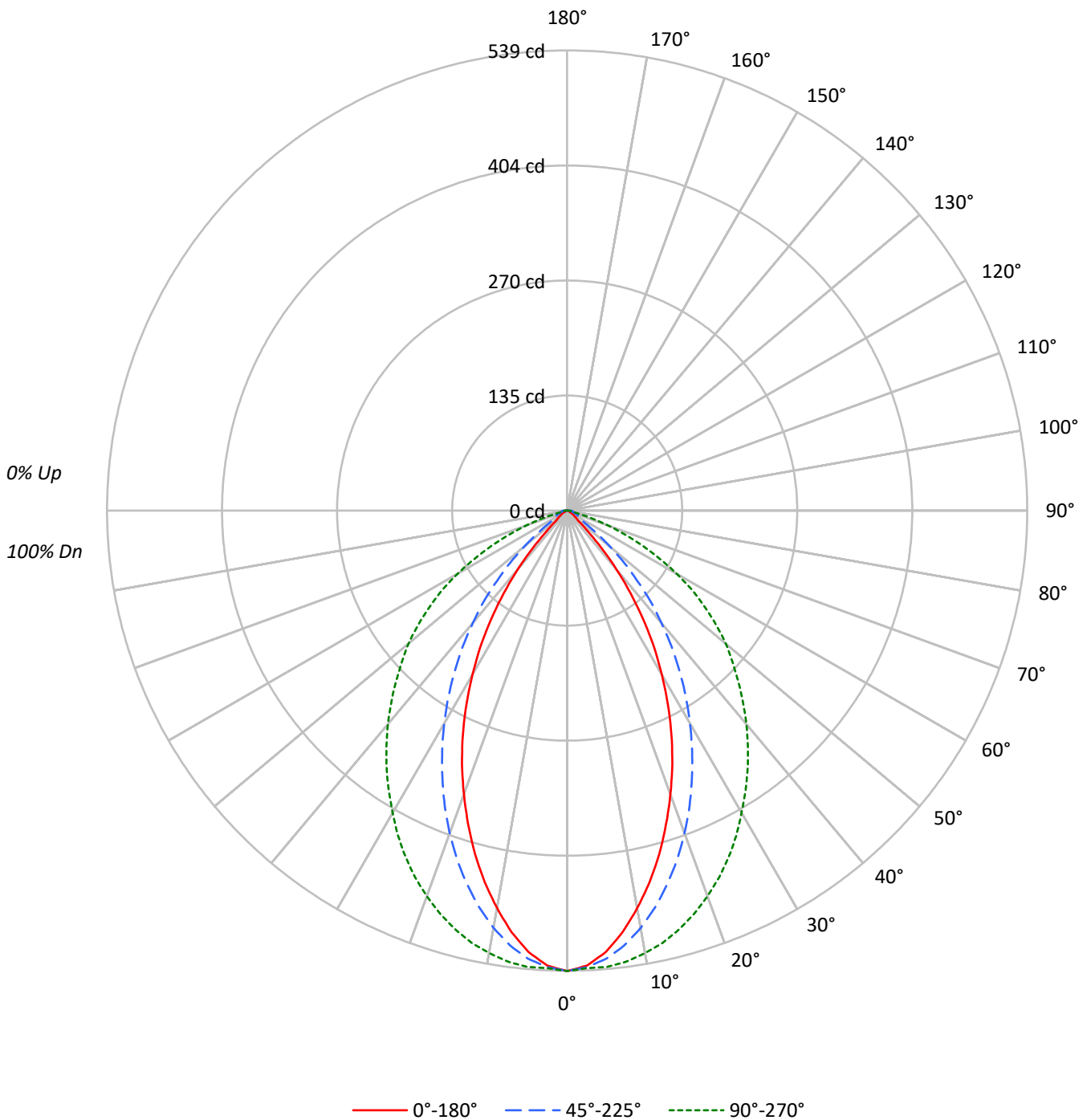
Lumens per Lamp: N/A
Luminaire Lumens: 697.9 lumens
Efficiency: N/A
Efficacy: 35.6 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3714	3714	3714
5°	3587	3641	3707
10°	3306	3469	3679
15°	2969	3230	3618
20°	2591	2946	3521
25°	2195	2627	3401
30°	1763	2287	3249
35°	1305	1929	3098
40°	808	1541	2935
45°	315	1127	2760
50°	148	706	2600
55°	108	303	2360
60°	74	215	2046
65°	49	225	1592
70°	48	205	1001
75°	64	207	319
80°	95	238	214
85°	142	474	332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2760 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	7.1
10°-20°	128.2	18.4
20°-30°	163.2	23.4
30°-40°	151.9	21.8
40°-50°	104.6	15.0
50°-60°	59.2	8.5
60°-70°	28.0	4.0
70°-80°	8.8	1.3
80°-90°	4.6	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°	340.8	48.8
0°-40°	492.8	70.6
0°-60°	656.6	94.1
0°-90°	697.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	697.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	539	539	539	539	539	
5°	519	526	527	532	536	48
15°	416	430	453	487	508	116
25°	289	307	346	404	448	132
35°	155	177	230	308	369	96
45°	32	52	116	209	284	30
55°	9	10	25	120	197	8
65°	3	4	14	43	98	3
75°	2	5	8	8	12	3
85°	2	5	6	5	4	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	539.4	539.4	539.4	539.4	539.4
2.5°	533.4	538.8	535.2	535.8	536.4
5°	519.0	526.2	526.8	531.6	536.4
7.5°	498.0	507.0	513.6	525.0	532.8
10°	472.8	483.6	496.2	514.8	526.2
12.5°	445.9	458.5	475.8	502.2	518.4
15°	416.5	430.3	453.1	487.2	507.6
17.5°	385.3	400.9	428.5	469.2	495.0
20°	353.6	370.4	402.1	448.9	480.6
22.5°	321.8	339.2	374.6	426.7	465.1
25°	288.9	307.4	345.8	403.9	447.7
27.5°	255.3	274.5	317.0	380.6	429.1
30°	221.7	242.1	287.7	356.6	408.7
32.5°	188.8	209.2	258.9	332.6	388.9
35°	155.2	176.8	229.5	308.0	368.6
37.5°	121.7	145.0	200.8	282.9	347.6
40°	89.9	112.1	171.4	258.3	326.6
42.5°	59.9	81.5	145.0	233.7	305.0
45°	32.4	51.5	115.7	209.2	283.5
47.5°	17.4	27.6	90.5	185.2	262.5
50°	13.8	15.6	65.9	163.0	242.7
52.5°	11.4	12.6	43.1	142.0	219.9
55°	9.0	10.2	25.2	120.5	196.6
57.5°	7.2	8.4	16.2	100.1	173.8
60°	5.4	6.6	15.6	80.3	148.6
62.5°	4.2	4.8	14.4	61.7	122.3
65°	3.0	3.6	13.8	43.1	97.7
67.5°	2.4	3.0	12.6	27.6	73.1
70°	2.4	2.4	10.2	18.0	49.7
72.5°	2.4	4.2	9.0	12.0	30.0
75°	2.4	5.4	7.8	8.4	12.0
77.5°	2.4	6.0	6.6	6.6	6.6
80°	2.4	5.4	6.0	6.0	5.4
82.5°	2.4	4.8	5.4	6.0	4.8
85°	1.8	4.8	6.0	5.4	4.2
87.5°	1.8	4.8	5.4	4.8	3.0
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	0.00	0.00	0.00	0.00	0.00	13.80	15.09	14.17	15.41	15.72
	3H	0.00	0.00	0.00	0.00	0.00	14.52	15.67	14.90	16.00	16.36
	4H	0.00	0.00	0.00	0.00	0.00	14.55	15.61	14.95	15.96	16.35
	6H	0.00	0.00	0.00	0.00	0.00	14.50	15.47	14.91	15.84	16.24
	8H	0.00	0.00	0.00	0.10	0.51	14.47	15.40	14.91	15.79	16.19
	12H	0.00	0.26	0.00	0.64	1.07	14.46	15.34	14.89	15.72	16.15
4H	2H	0.00	0.00	0.00	0.00	0.12	13.60	14.66	14.00	15.01	15.39
	3H	0.00	0.00	0.00	0.41	0.81	14.35	15.22	14.77	15.62	16.03
	4H	0.14	0.92	0.58	1.34	1.78	14.38	15.16	14.82	15.58	16.02
	6H	1.42	2.09	1.88	2.53	3.00	14.36	15.03	14.82	15.47	15.94
	8H	2.00	2.62	2.47	3.07	3.54	14.34	14.97	14.81	15.41	15.89
	12H	2.56	3.11	3.05	3.60	4.07	14.35	14.90	14.84	15.38	15.86
8H	4H	1.56	2.18	2.03	2.63	3.10	14.26	14.89	14.73	15.33	15.81
	6H	3.12	3.63	3.62	4.12	4.61	14.25	14.76	14.76	15.26	15.74
	8H	3.91	4.37	4.44	4.88	5.38	14.27	14.72	14.79	15.24	15.73
	12H	4.75	5.15	5.27	5.65	6.22	14.33	14.73	14.84	15.22	15.80
12H	4H	1.78	2.33	2.27	2.81	3.29	14.22	14.77	14.71	15.25	15.73
	6H	3.49	3.95	4.01	4.46	4.95	14.21	14.66	14.73	15.18	15.67
	8H	4.48	4.88	5.00	5.38	5.95	14.26	14.66	14.77	15.15	15.73