

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: P1061646

Luminaire Tested: S125RDRP-S375D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061646
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-S375D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

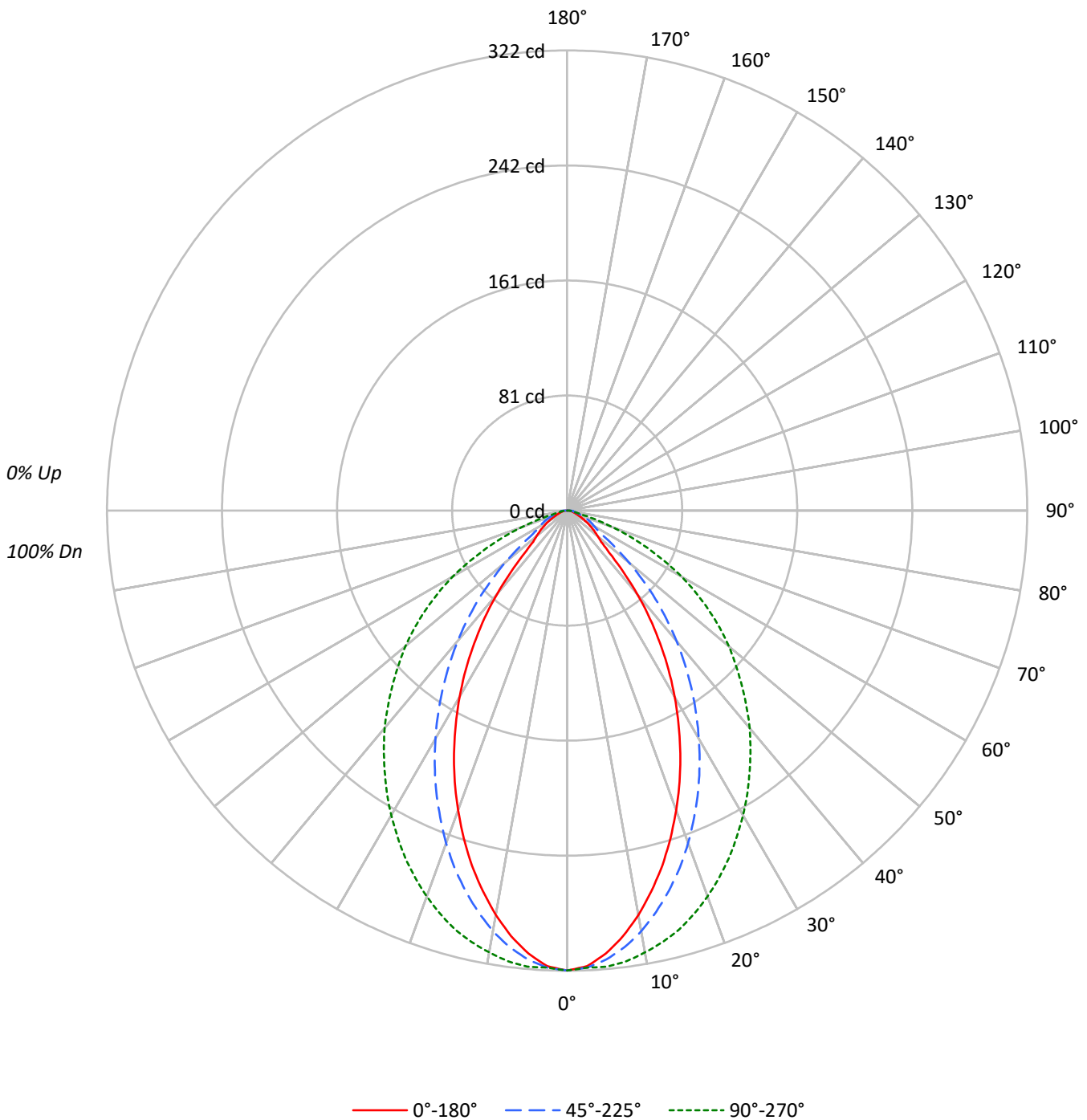
Lumens per Lamp: N/A
Luminaire Lumens: 466.1 lumens
Efficiency: N/A
Efficacy: 37.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (Ain): 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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	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	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	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	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2216	2216	2216
5°	2151	2179	2214
10°	2009	2090	2195
15°	1833	1962	2162
20°	1634	1814	2105
25°	1424	1647	2037
30°	1197	1465	1957
35°	951	1273	1871
40°	686	1070	1786
45°	406	849	1682
50°	300	604	1582
55°	254	373	1449
60°	207	302	1277
65°	161	279	1008
70°	137	242	674
75°	128	210	274
80°	135	218	190
85°	166	324	213

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1682 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	6.4
10°-20°	77.9	16.7
20°-30°	101.8	21.8
30°-40°	99.2	21.3
40°-50°	74.4	16.0
50°-60°	46.6	10.0
60°-70°	24.3	5.2
70°-80°	8.8	1.9
80°-90°	3.5	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°	209.4	44.9
0°-40°	308.6	66.2
0°-60°	429.6	92.2
0°-90°	466.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	466.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	322	322	322	322	322	
5°	311	315	315	318	320	29
15°	257	265	275	292	303	72
25°	187	198	217	246	268	86
35°	113	125	152	192	223	70
45°	42	54	87	135	173	35
55°	21	22	31	81	121	19
65°	10	11	17	33	62	10
75°	5	6	8	8	10	5
85°	2	3	4	4	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	321.8	321.8	321.8	321.8	321.8
2.5°	319.1	322.2	320.1	320.1	320.1
5°	311.2	315.3	315.3	317.7	320.4
7.5°	300.3	305.1	308.1	313.9	318.1
10°	287.3	293.1	298.9	308.5	313.9
12.5°	272.6	279.4	287.6	301.0	309.2
15°	257.2	264.7	275.3	292.4	303.3
17.5°	240.4	249.3	262.0	282.5	295.8
20°	223.0	231.9	247.6	270.9	287.3
22.5°	205.5	215.1	232.2	258.5	278.0
25°	187.4	197.7	216.8	246.2	268.1
27.5°	168.9	179.5	200.7	233.6	257.2
30°	150.5	161.4	184.3	219.9	246.2
32.5°	132.0	143.6	167.9	205.9	234.6
35°	113.2	125.2	151.5	191.9	222.6
37.5°	95.1	107.0	135.1	177.5	210.7
40°	76.3	89.3	119.0	163.1	198.7
42.5°	57.8	71.1	102.9	148.8	185.7
45°	41.7	54.0	87.2	134.7	172.7
47.5°	32.1	39.0	71.1	120.4	160.1
50°	28.0	30.1	56.4	107.0	147.7
52.5°	24.3	25.6	42.4	94.7	134.4
55°	21.2	22.2	31.1	81.4	120.7
57.5°	17.8	19.2	24.6	68.4	106.7
60°	15.0	15.7	21.9	56.4	92.7
62.5°	12.3	13.0	19.5	44.5	76.9
65°	9.9	10.6	17.1	32.8	61.9
67.5°	8.2	8.5	14.4	23.3	47.5
70°	6.8	7.2	12.0	16.1	33.5
72.5°	5.8	6.8	9.6	11.6	21.2
75°	4.8	6.5	7.9	8.2	10.3
77.5°	4.1	6.2	6.5	6.5	5.8
80°	3.4	5.1	5.5	5.1	4.8
82.5°	2.7	4.1	4.4	4.4	3.8
85°	2.1	3.4	4.1	3.8	2.7
87.5°	1.4	3.1	3.4	3.1	2.1
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	2.70	4.05	3.06	4.36	4.68	12.29	13.65	12.66	13.96	14.27
	3H	3.55	4.75	3.93	5.08	5.44	13.14	14.34	13.51	14.67	15.03
	4H	3.97	5.09	4.37	5.44	5.82	13.21	14.33	13.61	14.68	15.06
	6H	4.39	5.42	4.81	5.79	6.19	13.19	14.22	13.61	14.59	14.99
	8H	4.57	5.55	5.00	5.94	6.34	13.18	14.16	13.61	14.55	14.95
	12H	4.73	5.67	5.17	6.05	6.48	13.17	14.10	13.60	14.48	14.91
4H	2H	3.65	4.77	4.06	5.12	5.51	12.16	13.28	12.56	13.63	14.01
	3H	4.70	5.62	5.11	6.02	6.42	13.07	13.99	13.48	14.39	14.79
	4H	5.26	6.08	5.70	6.50	6.94	13.17	13.99	13.61	14.41	14.85
	6H	5.86	6.57	6.32	7.02	7.48	13.20	13.91	13.66	14.35	14.82
	8H	6.10	6.76	6.56	7.20	7.67	13.20	13.86	13.67	14.31	14.78
	12H	6.32	6.91	6.81	7.39	7.87	13.21	13.80	13.70	14.28	14.75
8H	4H	5.74	6.40	6.21	6.85	7.32	13.10	13.76	13.56	14.20	14.67
	6H	6.55	7.09	7.05	7.58	8.07	13.15	13.69	13.65	14.19	14.67
	8H	6.92	7.41	7.44	7.92	8.42	13.18	13.67	13.70	14.18	14.67
	12H	7.32	7.75	7.83	8.24	8.81	13.25	13.68	13.76	14.17	14.74
12H	4H	5.79	6.37	6.27	6.86	7.33	13.06	13.65	13.55	14.13	14.60
	6H	6.67	7.16	7.19	7.67	8.16	13.12	13.60	13.64	14.12	14.61
	8H	7.15	7.58	7.67	8.08	8.65	13.19	13.62	13.70	14.11	14.68