

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: P1061673

Luminaire Tested: S125RDRP-S375D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061673
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-S375D950-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

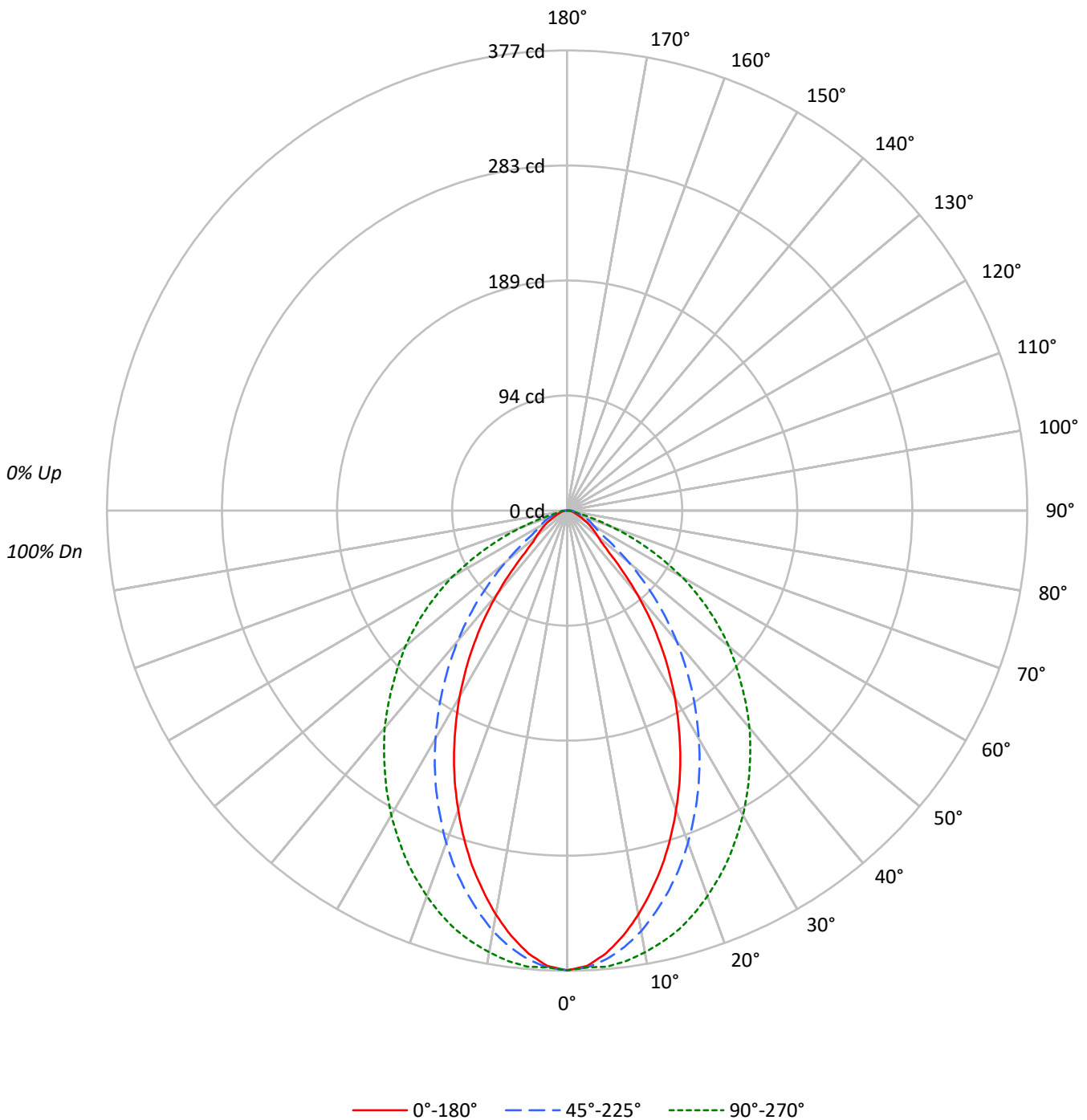
Lumens per Lamp: N/A
Luminaire Lumens: 545.4 lumens
Efficiency: N/A
Efficacy: 43.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (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	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°	2593	2593	2593
5°	2517	2550	2592
10°	2350	2446	2569
15°	2145	2296	2530
20°	1912	2123	2463
25°	1666	1927	2383
30°	1400	1715	2291
35°	1114	1490	2190
40°	802	1252	2090
45°	475	993	1968
50°	351	707	1852
55°	298	437	1696
60°	242	353	1493
65°	189	326	1180
70°	161	282	789
75°	149	245	319
80°	159	254	222
85°	190	379	253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1968 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	6.4
10°-20°	91.1	16.7
20°-30°	119.1	21.8
30°-40°	116.1	21.3
40°-50°	87.0	16.0
50°-60°	54.6	10.0
60°-70°	28.4	5.2
70°-80°	10.3	1.9
80°-90°	4.1	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°	245.0	44.9
0°-40°	361.1	66.2
0°-60°	502.7	92.2
0°-90°	545.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	545.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	377	377	377	377	377	
5°	364	369	369	372	375	34
15°	301	310	322	342	355	84
25°	219	231	254	288	314	100
35°	132	146	177	224	260	82
45°	49	63	102	158	202	41
55°	25	26	36	95	141	22
65°	12	12	20	38	72	12
75°	6	8	9	10	12	6
85°	2	4	5	4	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	376.6	376.6	376.6	376.6	376.6
2.5°	373.4	377.0	374.6	374.6	374.6
5°	364.2	369.0	369.0	371.8	375.0
7.5°	351.4	357.0	360.6	367.4	372.2
10°	336.1	342.9	349.8	361.0	367.4
12.5°	318.9	326.9	336.5	352.2	361.8
15°	300.9	309.7	322.1	342.1	355.0
17.5°	281.3	291.7	306.5	330.5	346.1
20°	260.9	271.3	289.7	316.9	336.1
22.5°	240.5	251.7	271.7	302.5	325.3
25°	219.3	231.3	253.7	288.1	313.7
27.5°	197.7	210.1	234.9	273.3	300.9
30°	176.1	188.9	215.7	257.3	288.1
32.5°	154.5	168.1	196.5	240.9	274.5
35°	132.5	146.5	177.3	224.5	260.5
37.5°	111.2	125.3	158.1	207.7	246.5
40°	89.2	104.4	139.3	190.9	232.5
42.5°	67.6	83.2	120.5	174.1	217.3
45°	48.8	63.2	102.0	157.7	202.1
47.5°	37.6	45.6	83.2	140.9	187.3
50°	32.8	35.2	66.0	125.3	172.9
52.5°	28.4	30.0	49.6	110.8	157.3
55°	24.8	26.0	36.4	95.2	141.3
57.5°	20.8	22.4	28.8	80.0	124.9
60°	17.6	18.4	25.6	66.0	108.4
62.5°	14.4	15.2	22.8	52.0	90.0
65°	11.6	12.4	20.0	38.4	72.4
67.5°	9.6	10.0	16.8	27.2	55.6
70°	8.0	8.4	14.0	18.8	39.2
72.5°	6.8	8.0	11.2	13.6	24.8
75°	5.6	7.6	9.2	9.6	12.0
77.5°	4.8	7.2	7.6	7.6	6.8
80°	4.0	6.0	6.4	6.0	5.6
82.5°	3.2	4.8	5.2	5.2	4.4
85°	2.4	4.0	4.8	4.4	3.2
87.5°	1.6	3.6	4.0	3.6	2.4
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	3.23	4.58	3.59	4.89	5.21	12.84	14.19	13.20	14.50	14.82
	3H	4.08	5.28	4.46	5.61	5.98	13.68	14.88	14.06	15.21	15.57
	4H	4.51	5.63	4.91	5.98	6.36	13.75	14.87	14.16	15.22	15.61
	6H	4.93	5.96	5.35	6.33	6.73	13.74	14.77	14.15	15.14	15.53
	8H	5.11	6.09	5.54	6.48	6.88	13.72	14.70	14.15	15.09	15.49
	12H	5.28	6.21	5.71	6.59	7.02	13.71	14.64	14.14	15.03	15.46
4H	2H	4.19	5.31	4.59	5.66	6.04	12.70	13.82	13.10	14.17	14.55
	3H	5.24	6.16	5.65	6.56	6.96	13.61	14.53	14.02	14.93	15.34
	4H	5.80	6.62	6.24	7.04	7.48	13.71	14.53	14.15	14.95	15.40
	6H	6.40	7.11	6.86	7.56	8.02	13.74	14.45	14.20	14.90	15.36
	8H	6.64	7.30	7.11	7.75	8.22	13.74	14.40	14.21	14.85	15.32
	12H	6.87	7.45	7.35	7.93	8.41	13.76	14.34	14.24	14.82	15.30
8H	4H	6.27	6.94	6.74	7.38	7.85	13.64	14.30	14.11	14.75	15.22
	6H	7.09	7.63	7.59	8.12	8.60	13.69	14.23	14.19	14.73	15.21
	8H	7.47	7.95	7.99	8.47	8.96	13.73	14.21	14.25	14.73	15.22
	12H	7.86	8.29	8.37	8.78	9.35	13.79	14.22	14.30	14.71	15.28
12H	4H	6.33	6.91	6.81	7.39	7.87	13.61	14.19	14.09	14.67	15.15
	6H	7.21	7.70	7.73	8.21	8.70	13.66	14.15	14.18	14.66	15.15
	8H	7.70	8.13	8.21	8.62	9.19	13.73	14.16	14.25	14.66	15.23