

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: P1175414

Luminaire Tested: S125RDRP-H375D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1175414  
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-H375D927-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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

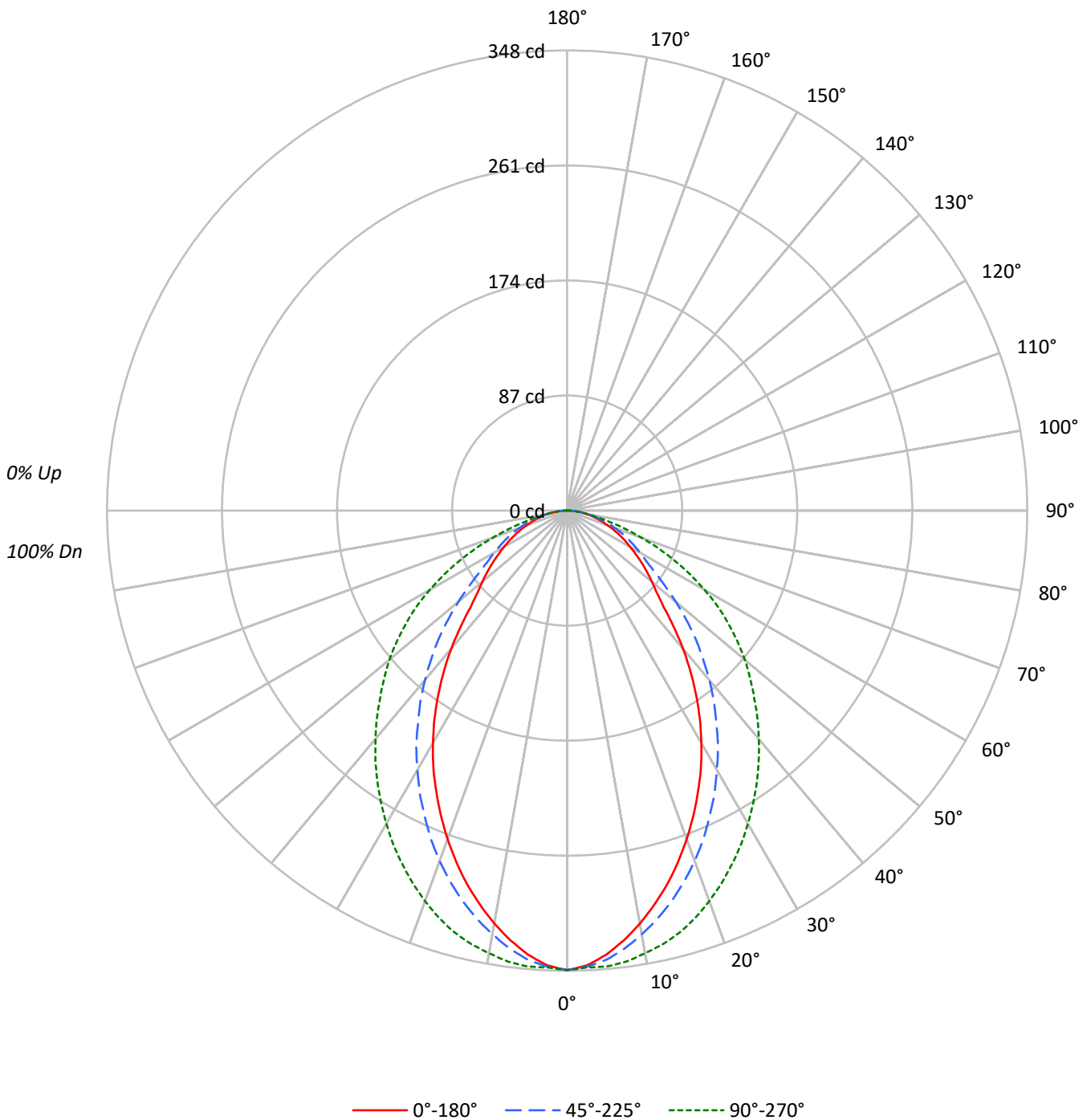
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 654.7 lumens  
Efficiency: N/A  
Efficacy: 56.0 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): 11.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	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°	2393	2393	2393
5°	2331	2357	2392
10°	2217	2275	2376
15°	2084	2178	2353
20°	1937	2066	2302
25°	1779	1936	2241
30°	1614	1799	2174
35°	1428	1654	2103
40°	1225	1504	2026
45°	1006	1339	1947
50°	894	1150	1880
55°	825	963	1785
60°	760	877	1654
65°	707	826	1461
70°	658	773	1194
75°	620	713	894
80°	587	654	642
85°	537	656	537

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1947 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.2	4.9
10°-20°	86.7	13.2
20°-30°	119.3	18.2
30°-40°	126.5	19.3
40°-50°	110.8	16.9
50°-60°	85.0	13.0
60°-70°	56.6	8.6
70°-80°	29.0	4.4
80°-90°	8.6	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°	238.2	36.4
0°-40°	364.7	55.7
0°-60°	560.5	85.6
0°-90°	654.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	654.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	348	348	348	348	348	
5°	337	342	341	343	346	32
15°	292	299	306	320	330	82
25°	234	242	255	276	295	108
35°	170	178	197	226	250	106
45°	103	112	138	172	200	82
55°	69	70	80	119	149	62
65°	43	44	51	67	90	43
75°	23	25	27	28	34	25
85°	7	8	8	8	7	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	347.5	347.5	347.5	347.5	347.5
2.5°	344.3	347.8	345.2	345.5	345.8
5°	337.2	341.6	341.0	343.4	346.1
7.5°	327.8	332.5	334.0	339.9	344.0
10°	317.1	322.5	325.4	334.3	339.9
12.5°	305.1	311.2	316.0	327.5	335.7
15°	292.4	299.2	305.6	320.1	330.1
17.5°	278.8	285.6	294.1	310.7	322.8
20°	264.3	271.7	282.0	299.7	314.2
22.5°	249.6	257.3	269.1	288.5	305.1
25°	234.2	242.2	254.9	276.4	295.0
27.5°	219.2	226.6	241.3	264.3	284.7
30°	203.0	210.6	226.3	251.7	273.5
32.5°	186.7	194.4	212.4	239.0	262.0
35°	169.9	177.9	196.8	225.7	250.2
37.5°	153.1	161.4	182.3	212.1	238.1
40°	136.3	145.2	167.3	198.6	225.4
42.5°	119.2	128.6	151.9	185.3	213.0
45°	103.3	111.8	137.5	171.7	200.0
47.5°	91.8	96.8	122.1	157.8	187.6
50°	83.5	85.9	107.4	144.6	175.5
52.5°	76.1	77.6	92.9	132.2	162.3
55°	68.7	70.2	80.2	119.2	148.7
57.5°	61.7	62.5	70.8	106.2	135.1
60°	55.2	55.8	63.7	93.2	120.1
62.5°	49.3	49.6	56.9	80.0	105.0
65°	43.4	43.7	50.7	66.7	89.7
67.5°	38.1	38.1	44.8	54.6	74.9
70°	32.7	32.7	38.4	44.3	59.3
72.5°	28.0	28.6	32.5	35.7	46.3
75°	23.3	24.8	26.8	28.3	33.6
77.5°	18.9	20.7	21.5	22.1	22.4
80°	14.8	15.9	16.5	16.8	16.2
82.5°	10.9	11.8	12.1	12.1	11.2
85°	6.8	7.7	8.3	8.0	6.8
87.5°	3.2	4.4	4.7	4.1	3.2
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	9.64	11.14	10.01	11.46	11.77	13.67	15.17	14.04	15.48	15.80
	3H	11.23	12.58	11.61	12.90	13.27	15.06	16.40	15.44	16.73	17.09
	4H	11.88	13.14	12.28	13.49	13.86	15.46	16.72	15.86	17.07	17.45
	6H	12.39	13.55	12.80	13.92	14.31	15.67	16.83	16.08	17.20	17.59
	8H	12.57	13.68	12.99	14.07	14.47	15.73	16.83	16.15	17.22	17.63
	12H	12.69	13.75	13.12	14.14	14.57	15.76	16.82	16.19	17.20	17.63
4H	2H	10.41	11.67	10.81	12.02	12.40	13.80	15.06	14.20	15.41	15.79
	3H	12.20	13.24	12.61	13.64	14.04	15.37	16.42	15.78	16.82	17.22
	4H	12.97	13.91	13.40	14.32	14.76	15.88	16.82	16.31	17.24	17.68
	6H	13.61	14.43	14.06	14.87	15.33	16.21	17.03	16.66	17.47	17.93
	8H	13.84	14.60	14.30	15.05	15.51	16.30	17.07	16.77	17.51	17.98
	12H	14.01	14.69	14.49	15.17	15.64	16.38	17.06	16.86	17.54	18.01
8H	4H	13.35	14.11	13.81	14.56	15.03	15.98	16.75	16.44	17.19	17.66
	6H	14.13	14.76	14.62	15.25	15.73	16.40	17.03	16.90	17.52	18.00
	8H	14.44	15.01	14.96	15.52	16.01	16.56	17.13	17.07	17.64	18.12
	12H	14.71	15.21	15.22	15.70	16.26	16.70	17.20	17.21	17.69	18.26
12H	4H	13.39	14.07	13.87	14.55	15.02	15.98	16.66	16.46	17.14	17.61
	6H	14.20	14.77	14.72	15.28	15.77	16.41	16.98	16.92	17.49	17.98
	8H	14.59	15.09	15.10	15.58	16.14	16.62	17.12	17.13	17.61	18.18