

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: P1175372

Luminaire Tested: S125RDRP-S375D940-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1175372  
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-S375D940-X4F0-XX-UDD-WVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

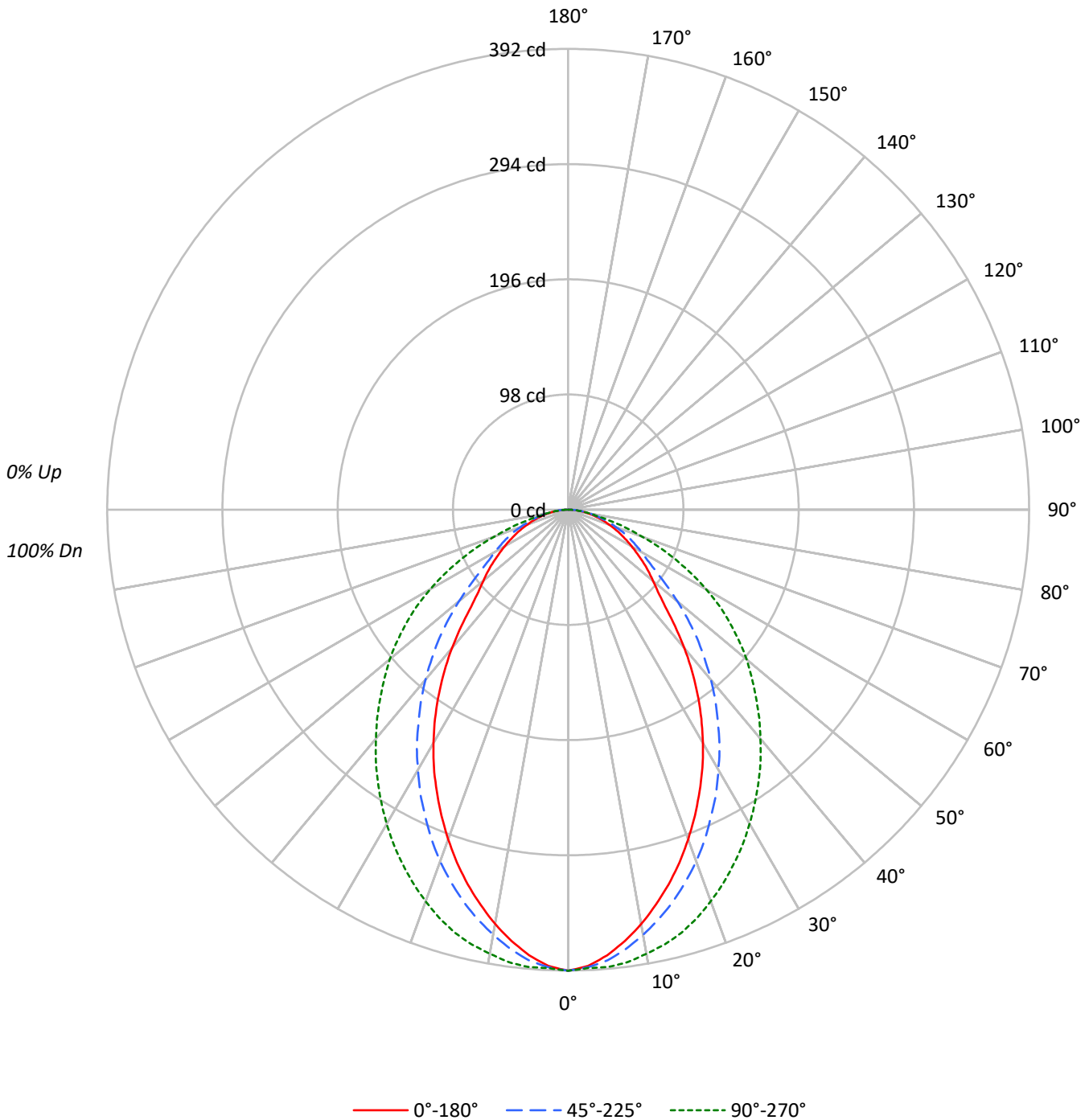
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 738.8 lumens  
Efficiency: N/A  
Efficacy: 59.1 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): 12.5  
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2700	2700	2700
5°	2630	2660	2699
10°	2502	2567	2681
15°	2352	2458	2655
20°	2186	2332	2597
25°	2008	2185	2529
30°	1821	2030	2453
35°	1612	1866	2373
40°	1382	1697	2286
45°	1134	1510	2198
50°	1009	1298	2122
55°	932	1088	2014
60°	858	990	1866
65°	797	934	1649
70°	745	872	1347
75°	700	806	1011
80°	658	737	726
85°	608	735	608

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2198 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.3	4.9
10°-20°	97.9	13.2
20°-30°	134.6	18.2
30°-40°	142.8	19.3
40°-50°	125.0	16.9
50°-60°	95.9	13.0
60°-70°	63.9	8.6
70°-80°	32.8	4.4
80°-90°	9.7	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°	268.8	36.4
0°-40°	411.6	55.7
0°-60°	632.5	85.6
0°-90°	738.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	738.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	392	392	392	392	392	
5°	380	386	385	388	390	36
15°	330	338	345	361	372	92
25°	264	273	288	312	333	121
35°	192	201	222	255	282	119
45°	116	126	155	194	226	92
55°	78	79	91	134	168	70
65°	49	49	57	75	101	49
75°	26	28	30	32	38	28
85°	8	9	9	9	8	9
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	392.2	392.2	392.2	392.2	392.2
2.5°	388.5	392.5	389.5	389.8	390.2
5°	380.5	385.5	384.8	387.5	390.5
7.5°	369.9	375.2	376.8	383.5	388.2
10°	357.9	363.9	367.2	377.2	383.5
12.5°	344.2	351.2	356.5	369.5	378.8
15°	329.9	337.6	344.9	361.2	372.5
17.5°	314.6	322.3	331.9	350.5	364.2
20°	298.3	306.6	318.3	338.2	354.5
22.5°	281.6	290.3	303.6	325.6	344.2
25°	264.3	273.3	287.6	311.9	332.9
27.5°	247.3	255.7	272.3	298.3	321.3
30°	229.0	237.7	255.3	284.0	308.6
32.5°	210.7	219.4	239.7	269.7	295.6
35°	191.8	200.7	222.0	254.7	282.3
37.5°	172.8	182.1	205.7	239.4	268.7
40°	153.8	163.8	188.8	224.0	254.3
42.5°	134.5	145.1	171.4	209.1	240.4
45°	116.5	126.2	155.1	193.8	225.7
47.5°	103.5	109.2	137.8	178.1	211.7
50°	94.2	96.9	121.2	163.1	198.1
52.5°	85.9	87.6	104.9	149.1	183.1
55°	77.6	79.2	90.6	134.5	167.8
57.5°	69.6	70.6	79.9	119.8	152.5
60°	62.3	62.9	71.9	105.2	135.5
62.5°	55.6	55.9	64.3	90.2	118.5
65°	48.9	49.3	57.3	75.2	101.2
67.5°	42.9	42.9	50.6	61.6	84.6
70°	37.0	37.0	43.3	49.9	66.9
72.5°	31.6	32.3	36.6	40.3	52.3
75°	26.3	28.0	30.3	32.0	38.0
77.5°	21.3	23.3	24.3	25.0	25.3
80°	16.6	18.0	18.6	19.0	18.3
82.5°	12.3	13.3	13.6	13.6	12.7
85°	7.7	8.7	9.3	9.0	7.7
87.5°	3.7	5.0	5.3	4.7	3.7
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	10.07	11.57	10.43	11.88	12.20	14.09	15.59	14.45	15.90	16.22
	3H	11.65	13.00	12.03	13.33	13.69	15.48	16.82	15.86	17.15	17.51
	4H	12.30	13.56	12.70	13.91	14.29	15.88	17.15	16.28	17.49	17.87
	6H	12.81	13.97	13.22	14.34	14.73	16.09	17.25	16.50	17.62	18.01
	8H	12.99	14.09	13.41	14.48	14.89	16.15	17.26	16.58	17.65	18.05
	12H	13.11	14.17	13.54	14.56	14.98	16.18	17.24	16.61	17.62	18.05
4H	2H	10.84	12.10	11.24	12.45	12.83	14.22	15.48	14.62	15.83	16.21
	3H	12.62	13.67	13.03	14.07	14.47	15.79	16.84	16.20	17.24	17.64
	4H	13.39	14.33	13.82	14.75	15.19	16.30	17.24	16.73	17.66	18.10
	6H	14.03	14.85	14.48	15.29	15.75	16.63	17.45	17.09	17.89	18.35
	8H	14.26	15.02	14.72	15.47	15.93	16.73	17.49	17.19	17.94	18.41
	12H	14.43	15.11	14.91	15.59	16.06	16.80	17.48	17.28	17.96	18.43
8H	4H	13.77	14.54	14.24	14.98	15.45	16.40	17.17	16.87	17.61	18.08
	6H	14.55	15.18	15.05	15.67	16.15	16.82	17.45	17.32	17.94	18.42
	8H	14.86	15.43	15.38	15.94	16.43	16.98	17.55	17.49	18.06	18.55
	12H	15.13	15.63	15.64	16.12	16.69	17.12	17.62	17.63	18.11	18.68
12H	4H	13.81	14.49	14.29	14.97	15.44	16.40	17.08	16.88	17.56	18.03
	6H	14.62	15.19	15.14	15.70	16.19	16.83	17.40	17.35	17.91	18.40
	8H	15.00	15.51	15.51	16.00	16.56	17.04	17.54	17.55	18.04	18.60