

Scaled data based on original data using  
LM-79-2019 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: S125RDR-H375D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2019  
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: S125RDR-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: -

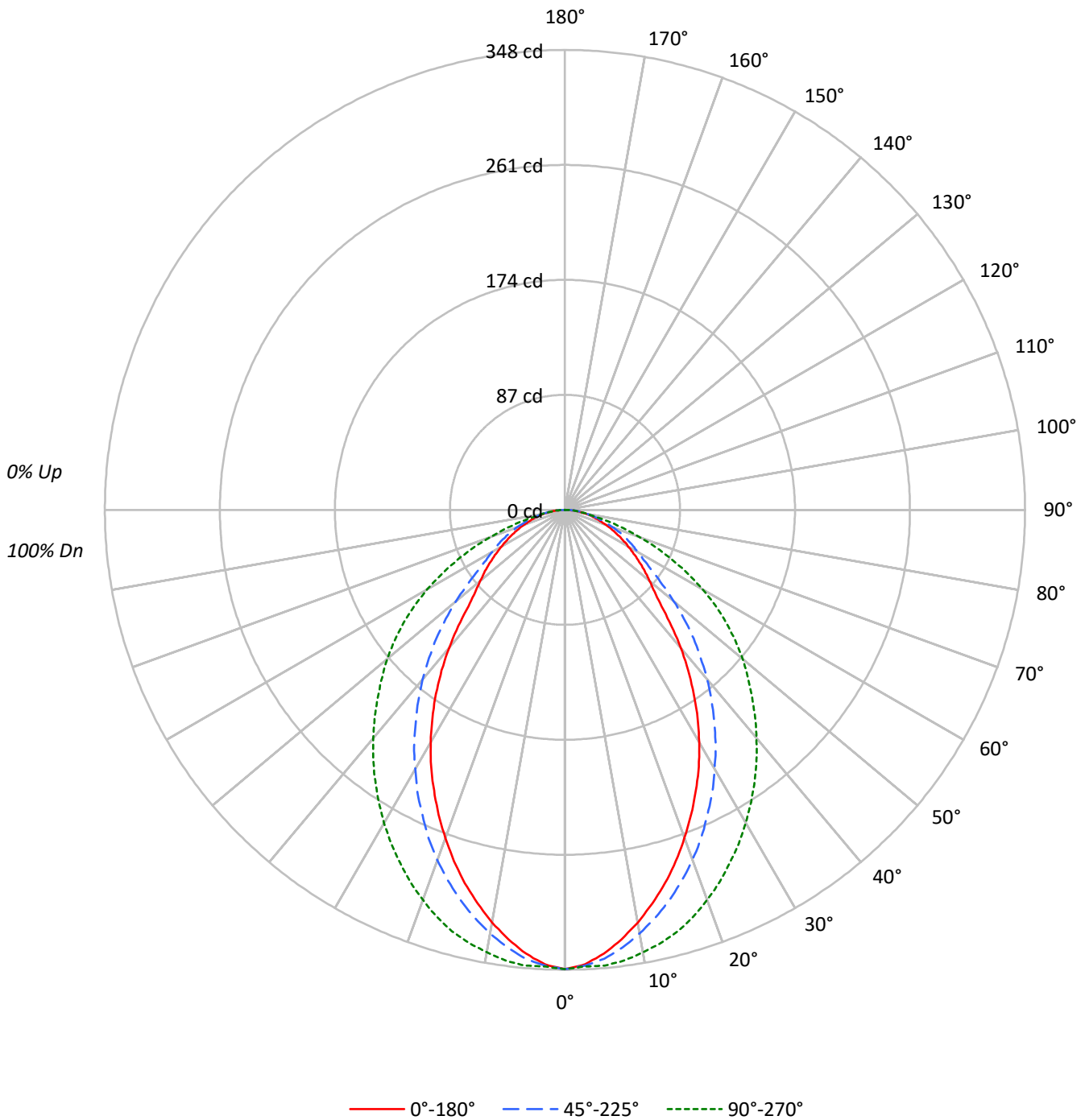
**Summary**

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 (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	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

(END OF REPORT)