

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: P1175405

Luminaire Tested: S125RDR-H1270D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1175405  
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-H1270D927-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: -

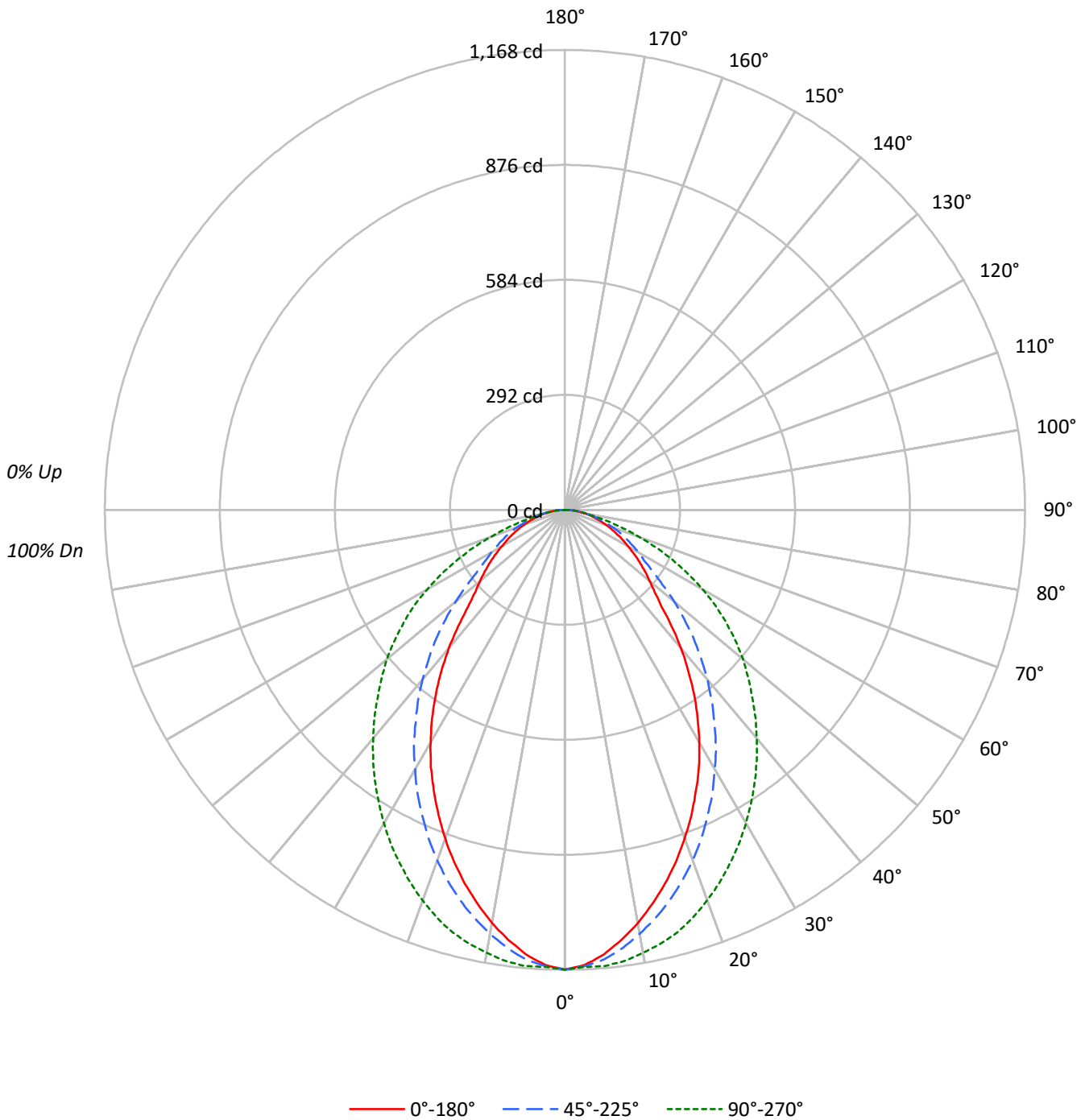
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2199.9 lumens  
Efficiency: N/A  
Efficacy: 60.3 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): 36.5  
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	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°	8040	8040	8040
5°	7831	7920	8037
10°	7450	7644	7984
15°	7003	7321	7907
20°	6508	6944	7735
25°	5980	6507	7531
30°	5422	6045	7306
35°	4799	5558	7066
40°	4117	5052	6807
45°	3378	4498	6544
50°	3005	3865	6318
55°	2773	3236	5997
60°	2553	2948	5555
65°	2374	2778	4909
70°	2214	2595	4010
75°	2083	2400	3006
80°	1967	2201	2161
85°	1801	2196	1801

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6544 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.1	4.9
10°-20°	291.4	13.2
20°-30°	400.9	18.2
30°-40°	425.2	19.3
40°-50°	372.1	16.9
50°-60°	285.6	13.0
60°-70°	190.2	8.6
70°-80°	97.5	4.4
80°-90°	29.0	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°	800.4	36.4
0°-40°	1225.5	55.7
0°-60°	1883.2	85.6
0°-90°	2199.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2199.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1133	1148	1146	1154	1163	106
15°	982	1005	1027	1076	1109	275
25°	787	814	856	929	991	361
35°	571	598	661	758	841	356
45°	347	376	462	577	672	274
55°	231	236	270	400	500	207
65°	146	147	170	224	301	145
75°	78	83	90	95	113	83
85°	23	26	28	27	23	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1167.7	1167.7	1167.7	1167.7	1167.7
2.5°	1156.8	1168.7	1159.8	1160.8	1161.8
5°	1133.0	1147.9	1145.9	1153.8	1162.8
7.5°	1101.3	1117.2	1122.1	1141.9	1155.8
10°	1065.6	1083.5	1093.4	1123.1	1141.9
12.5°	1025.0	1045.8	1061.7	1100.3	1128.1
15°	982.4	1005.2	1027.0	1075.5	1109.2
17.5°	936.8	959.6	988.3	1043.8	1084.5
20°	888.2	913.0	947.7	1007.1	1055.7
22.5°	838.6	864.4	904.0	969.5	1025.0
25°	787.1	813.8	856.5	928.8	991.3
27.5°	736.5	761.3	810.9	888.2	956.6
30°	682.0	707.8	760.3	845.6	918.9
32.5°	627.5	653.2	713.7	802.9	880.3
35°	571.0	597.7	661.2	758.3	840.6
37.5°	514.5	542.2	612.6	712.7	800.0
40°	458.0	487.7	562.1	667.1	757.3
42.5°	400.5	432.2	510.5	622.5	715.7
45°	346.9	375.7	461.9	576.9	672.1
47.5°	308.3	325.1	410.4	530.3	630.5
50°	280.5	288.5	360.8	485.7	589.8
52.5°	255.7	260.7	312.3	444.1	545.2
55°	231.0	235.9	269.6	400.5	499.6
57.5°	207.2	210.2	237.9	356.9	454.0
60°	185.4	187.4	214.1	313.2	403.4
62.5°	165.5	166.5	191.3	268.6	352.9
65°	145.7	146.7	170.5	224.0	301.3
67.5°	127.9	127.9	150.7	183.4	251.8
70°	110.0	110.0	128.9	148.7	199.2
72.5°	94.2	96.2	109.0	119.9	155.6
75°	78.3	83.3	90.2	95.2	113.0
77.5°	63.4	69.4	72.4	74.3	75.3
80°	49.6	53.5	55.5	56.5	54.5
82.5°	36.7	39.7	40.6	40.6	37.7
85°	22.8	25.8	27.8	26.8	22.8
87.5°	10.9	14.9	15.9	13.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)