

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: P1061476

Luminaire Tested: S125RDR-S1090D927-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061476  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S1090D927-X4F0-XX-UDD-WVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

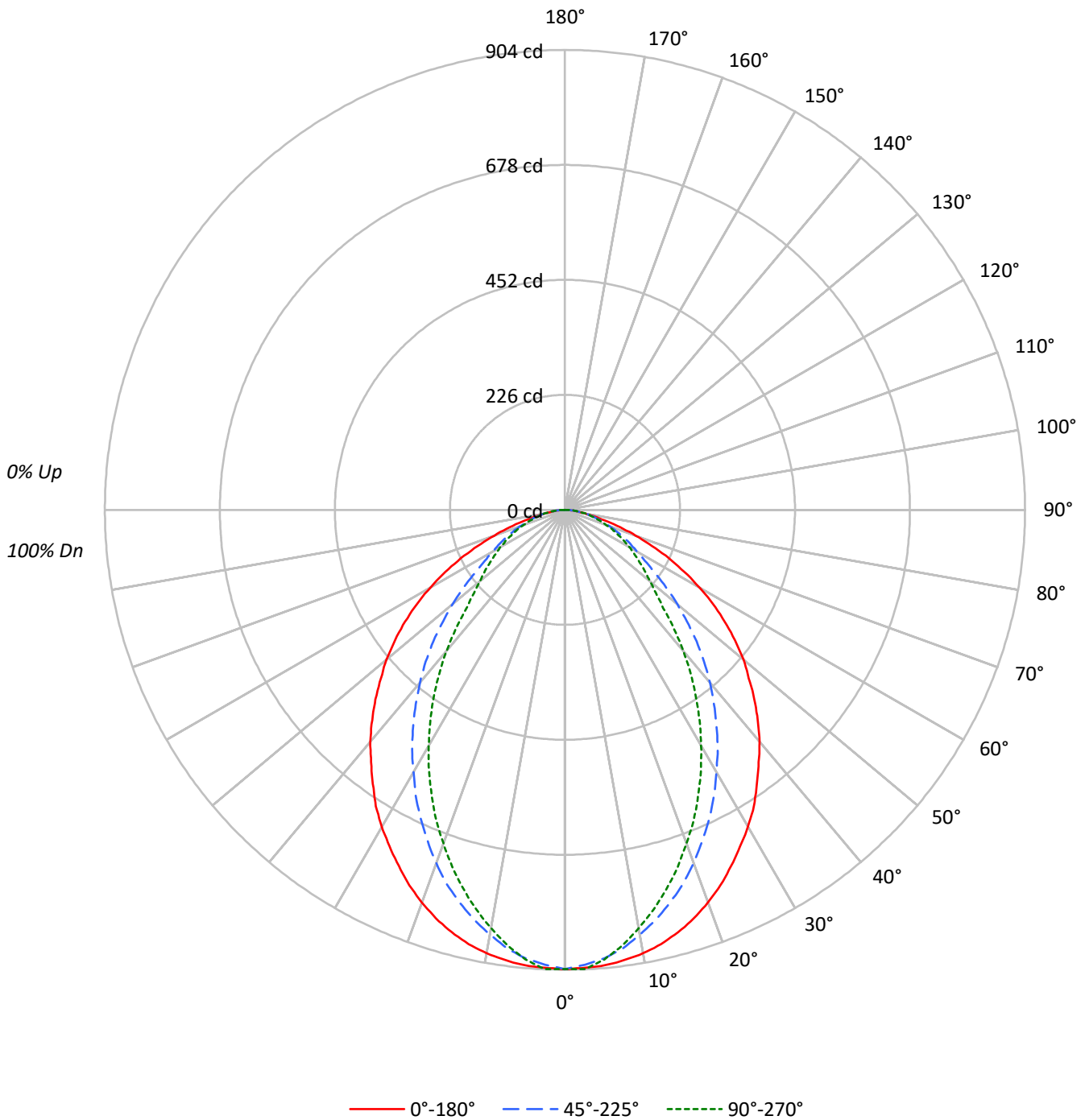
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1710.2 lumens  
Efficiency: N/A  
Efficacy: 48.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 35  
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									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	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	108	104	100	97	100	97	94	96	93	91	92	90	89	87																												
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75																												
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65																												
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57																												
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50																												
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45																												
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40																												
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36																												
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33																												
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30																												

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

	0°	45°	90°
0°	6216	6216	6216
5°	6213	6117	6131
10°	6188	5928	5839
15°	6127	5695	5499
20°	6018	5415	5114
25°	5868	5094	4706
30°	5720	4730	4255
35°	5528	4367	3773
40°	5348	3983	3251
45°	5126	3560	2663
50°	4904	3087	2331
55°	4601	2577	2154
60°	4197	2254	2012
65°	3672	2059	1869
70°	2979	1854	1737
75°	2139	1695	1617
80°	1475	1515	1515
85°	1082	1319	1390

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5126 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	4.9
10°-20°	227.0	13.3
20°-30°	313.8	18.3
30°-40°	334.2	19.5
40°-50°	293.6	17.2
50°-60°	222.6	13.0
60°-70°	144.5	8.5
70°-80°	71.6	4.2
80°-90°	18.7	1.1
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°	624.8	36.5
0°-40°	959.0	56.1
0°-60°	1475.3	86.3
0°-90°	1710.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1710.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	903	903	903	903	903	
5°	899	897	885	888	887	85
15°	860	840	799	780	771	242
25°	772	730	670	636	620	356
35°	658	597	520	472	449	412
45°	526	453	366	300	274	406
55°	383	308	215	185	179	342
65°	225	168	126	117	115	223
75°	80	71	64	62	61	90
85°	14	16	17	17	18	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	902.8	902.8	902.8	902.8	902.8
2.5°	900.8	902.8	894.9	901.8	903.8
5°	898.9	896.9	885.1	888.1	887.1
7.5°	893.0	889.1	869.4	867.5	863.6
10°	885.1	875.3	847.9	841.0	835.1
12.5°	874.3	858.7	825.3	811.6	804.8
15°	859.6	840.0	798.9	780.2	771.4
17.5°	842.0	814.6	771.4	745.9	736.1
20°	821.4	789.1	739.1	709.7	697.9
22.5°	798.9	760.6	704.8	673.4	660.7
25°	772.4	730.3	670.5	636.2	619.5
27.5°	745.9	698.9	634.2	596.0	578.3
30°	719.5	665.6	595.0	553.8	535.2
32.5°	691.0	631.3	558.7	513.6	492.1
35°	657.7	596.9	519.5	472.5	448.9
37.5°	625.4	560.7	481.3	428.4	405.8
40°	595.0	526.4	443.1	385.2	361.7
42.5°	560.7	490.1	404.8	344.1	317.6
45°	526.4	452.9	365.6	299.9	273.5
47.5°	490.1	417.6	324.5	259.8	242.1
50°	457.8	381.3	288.2	229.4	217.6
52.5°	420.5	346.0	250.9	205.8	198.0
55°	383.3	307.8	214.7	185.3	179.4
57.5°	345.0	273.5	186.2	167.6	161.7
60°	304.8	238.2	163.7	149.0	146.1
62.5°	264.7	201.9	144.1	133.3	129.4
65°	225.4	167.6	126.4	116.6	114.7
67.5°	185.3	136.2	108.8	101.9	101.0
70°	148.0	110.8	92.1	88.2	86.3
72.5°	113.7	88.2	77.4	74.5	73.5
75°	80.4	70.6	63.7	61.8	60.8
77.5°	53.9	53.9	51.0	49.0	50.0
80°	37.2	39.2	38.2	38.2	38.2
82.5°	24.5	26.5	27.4	27.4	27.4
85°	13.7	15.7	16.7	16.7	17.6
87.5°	4.9	5.9	6.9	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)