

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: P1175351

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

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1175351  
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-S1090D927-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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

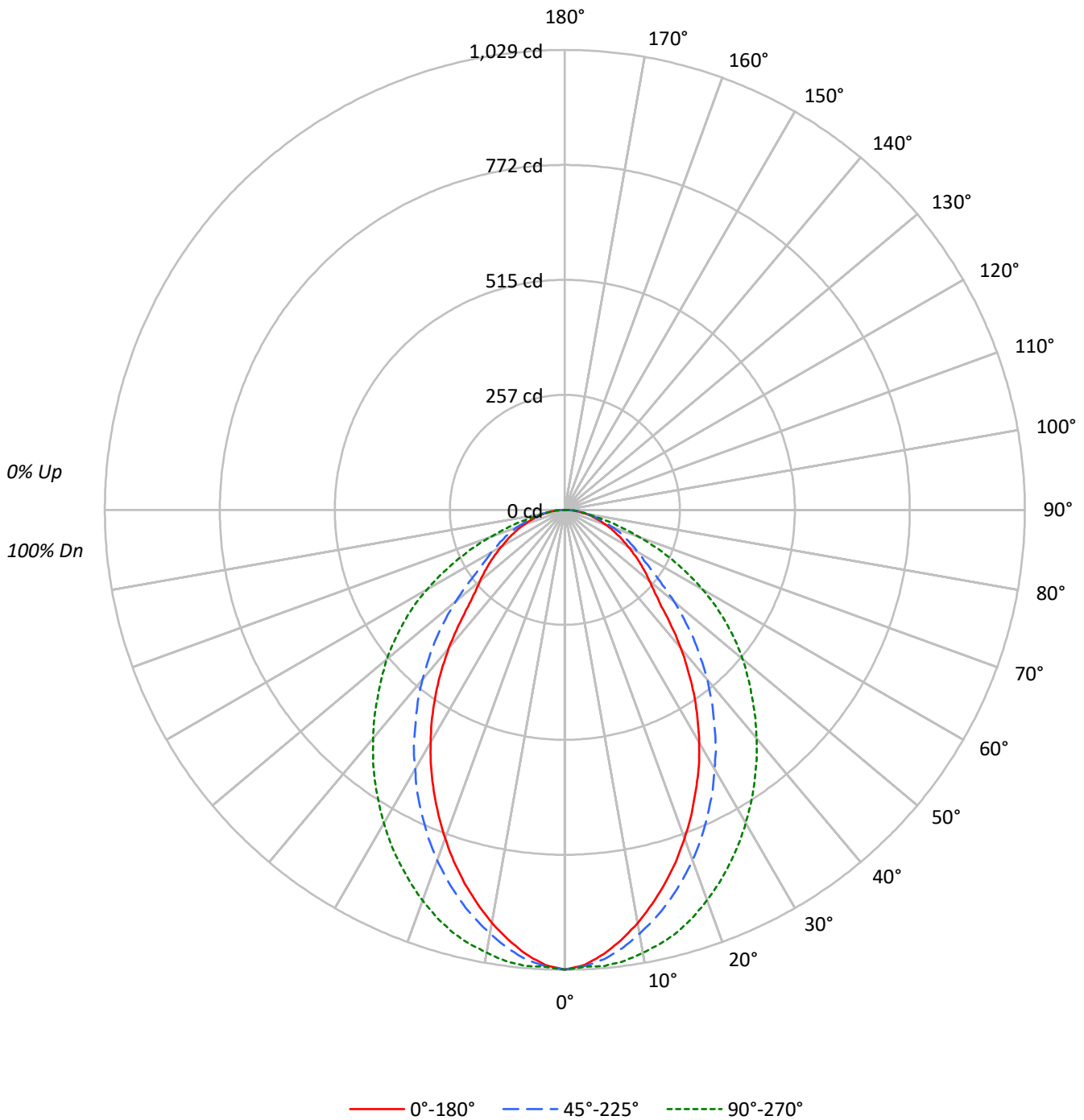
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1937.8 lumens  
Efficiency: N/A  
Efficacy: 55.4 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): 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	
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				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°	7082	7082	7082
5°	6898	6977	7079
10°	6563	6733	7033
15°	6168	6448	6965
20°	5733	6117	6813
25°	5267	5731	6634
30°	4776	5324	6435
35°	4227	4895	6223
40°	3626	4450	5996
45°	2976	3962	5764
50°	2647	3404	5565
55°	2442	2851	5283
60°	2249	2597	4894
65°	2092	2447	4324
70°	1951	2285	3533
75°	1836	2115	2647
80°	1733	1939	1903
85°	1588	1928	1588

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5764 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.2	4.9
10°-20°	256.7	13.2
20°-30°	353.1	18.2
30°-40°	374.5	19.3
40°-50°	327.8	16.9
50°-60°	251.5	13.0
60°-70°	167.5	8.6
70°-80°	85.9	4.4
80°-90°	25.5	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°	705.0	36.4
0°-40°	1079.5	55.7
0°-60°	1658.8	85.6
0°-90°	1937.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1937.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1029	1029	1029	1029	1029	
5°	998	1011	1009	1016	1024	93
15°	865	885	905	947	977	243
25°	693	717	754	818	873	318
35°	503	526	582	668	740	313
45°	306	331	407	508	592	241
55°	203	208	238	353	440	182
65°	128	129	150	197	265	128
75°	69	73	80	84	100	73
85°	20	23	24	24	20	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1028.6	1028.6	1028.6	1028.6	1028.6
2.5°	1019.0	1029.5	1021.6	1022.5	1023.4
5°	998.0	1011.1	1009.4	1016.4	1024.2
7.5°	970.1	984.1	988.4	1005.9	1018.1
10°	938.7	954.4	963.1	989.3	1005.9
12.5°	902.9	921.2	935.2	969.2	993.7
15°	865.3	885.4	904.6	947.4	977.1
17.5°	825.1	845.2	870.6	919.4	955.2
20°	782.4	804.2	834.8	887.1	929.9
22.5°	738.7	761.4	796.3	854.0	902.9
25°	693.3	716.9	754.4	818.2	873.2
27.5°	648.8	670.6	714.3	782.4	842.6
30°	600.7	623.4	669.7	744.8	809.4
32.5°	552.7	575.4	628.7	707.3	775.4
35°	502.9	526.5	582.4	668.0	740.4
37.5°	453.2	477.6	539.6	627.8	704.6
40°	403.4	429.6	495.1	587.6	667.1
42.5°	352.8	380.7	449.7	548.4	630.4
45°	305.6	330.9	406.9	508.2	592.0
47.5°	271.6	286.4	361.5	467.1	555.3
50°	247.1	254.1	317.8	427.9	519.5
52.5°	225.3	229.6	275.0	391.2	480.2
55°	203.4	207.8	237.5	352.8	440.1
57.5°	182.5	185.1	209.6	314.3	399.9
60°	163.3	165.0	188.6	275.9	355.4
62.5°	145.8	146.7	168.5	236.6	310.8
65°	128.4	129.2	150.2	197.3	265.4
67.5°	112.6	112.6	132.7	161.5	221.8
70°	96.9	96.9	113.5	131.0	175.5
72.5°	83.0	84.7	96.0	105.7	137.1
75°	69.0	73.3	79.5	83.8	99.5
77.5°	55.9	61.1	63.7	65.5	66.4
80°	43.7	47.2	48.9	49.8	48.0
82.5°	32.3	34.9	35.8	35.8	33.2
85°	20.1	22.7	24.4	23.6	20.1
87.5°	9.6	13.1	14.0	12.2	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)