

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: P1056383

Luminaire Tested: S125R3DR-S1090D950-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1056383  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/25/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125R3DR-S1090D950-X4F0-XX-UDD-FLL-S  
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

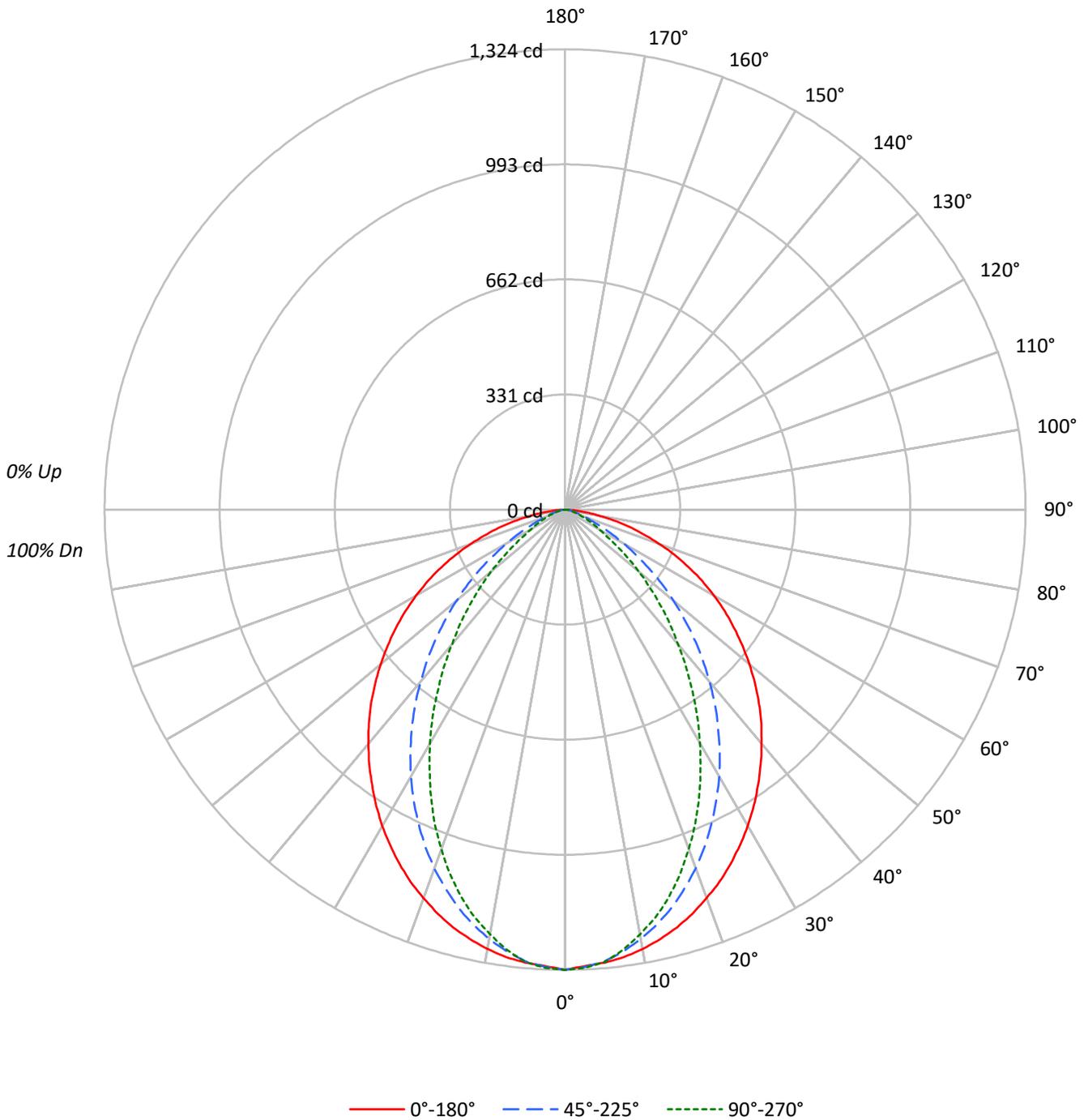
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2393.1 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11  
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 34.7  
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				100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	102	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59				59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				52
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47				47
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35				35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

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

	0°	45°	90°
0°	9360	9360	9360
5°	9283	9256	9274
10°	9214	9002	8906
15°	9107	8676	8443
20°	8946	8264	7821
25°	8778	7774	7115
30°	8576	7236	6334
35°	8348	6623	5512
40°	8112	5951	4661
45°	7881	5246	3861
50°	7604	4463	3033
55°	7314	3626	2206
60°	6986	2703	1578
65°	6562	1785	1231
70°	5930	1242	862
75°	5157	803	669
80°	4043	598	550
85°	2085	495	397

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7881 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.3	5.2
10°-20°	335.3	14.0
20°-30°	463.6	19.4
30°-40°	491.2	20.5
40°-50°	428.7	17.9
50°-60°	304.9	12.7
60°-70°	169.6	7.1
70°-80°	65.2	2.7
80°-90°	11.3	0.5
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°	922.2	38.5
0°-40°	1413.4	59.1
0°-60°	2147.0	89.7
0°-90°	2393.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2393.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1324	1324	1324	1324	1324	
5°	1308	1318	1304	1301	1307	124
15°	1244	1233	1186	1160	1154	350
25°	1125	1087	997	935	912	518
35°	967	901	767	674	639	605
45°	788	694	525	419	386	608
55°	593	476	294	204	179	531
65°	392	257	107	78	74	388
75°	189	74	29	24	24	200
85°	26	7	6	5	5	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1324.0	1324.0	1324.0	1324.0	1324.0
2.5°	1314.2	1327.7	1316.7	1317.9	1319.1
5°	1308.1	1317.9	1304.4	1300.7	1306.9
7.5°	1298.3	1305.6	1282.3	1273.8	1277.4
10°	1283.6	1286.0	1254.1	1241.9	1240.7
12.5°	1265.2	1261.5	1222.3	1202.7	1201.4
15°	1244.3	1233.3	1185.5	1159.8	1153.6
17.5°	1218.6	1201.4	1142.6	1109.5	1099.7
20°	1189.2	1165.9	1098.5	1055.5	1039.6
22.5°	1159.8	1127.9	1049.4	995.5	978.3
25°	1125.4	1087.4	996.7	935.4	912.1
27.5°	1088.6	1043.3	942.8	871.7	843.5
30°	1050.6	997.9	886.4	806.7	776.0
32.5°	1010.2	950.1	827.5	740.5	708.6
35°	967.3	901.1	767.4	674.3	638.7
37.5°	924.4	850.8	708.6	609.3	572.5
40°	879.0	799.3	644.9	543.1	505.1
42.5°	834.9	746.6	584.8	480.6	446.2
45°	788.3	693.9	524.7	419.3	386.2
47.5°	740.5	638.7	464.6	361.7	328.6
50°	691.4	584.8	405.8	305.3	275.8
52.5°	642.4	530.8	350.6	251.3	225.6
55°	593.4	475.7	294.2	203.5	179.0
57.5°	544.3	421.7	241.5	159.4	137.3
60°	494.1	366.6	191.2	117.7	111.6
62.5°	443.8	312.6	148.3	96.9	91.9
65°	392.3	257.4	106.7	78.5	73.6
67.5°	340.8	207.2	77.2	60.1	56.4
70°	286.9	158.1	60.1	45.4	41.7
72.5°	235.4	114.0	42.9	33.1	31.9
75°	188.8	73.6	29.4	24.5	24.5
77.5°	142.2	44.1	20.8	18.4	18.4
80°	99.3	25.7	14.7	13.5	13.5
82.5°	60.1	13.5	9.8	8.6	8.6
85°	25.7	7.4	6.1	4.9	4.9
87.5°	4.9	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)