

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: P1056437

Luminaire Tested: S125R3DR-S375D950-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1056437  
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-S375D950-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: -

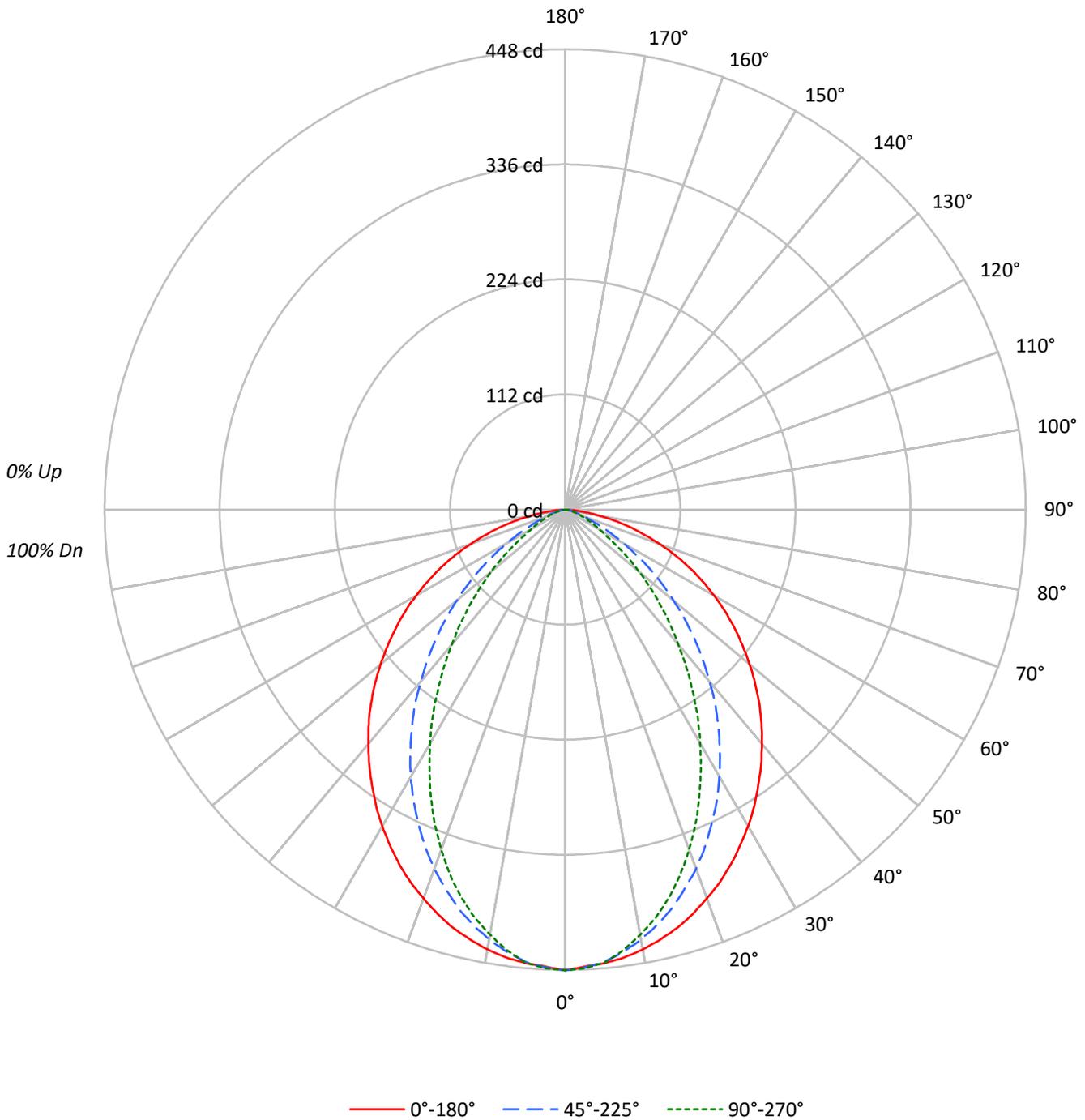
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 810.5 lumens  
Efficiency: N/A  
Efficacy: 64.3 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): 12.6  
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°	3171	3171	3171
5°	3144	3135	3141
10°	3121	3049	3016
15°	3085	2938	2859
20°	3030	2799	2649
25°	2973	2633	2409
30°	2905	2451	2145
35°	2827	2243	1867
40°	2747	2015	1579
45°	2669	1777	1308
50°	2576	1511	1027
55°	2477	1229	747
60°	2365	916	534
65°	2223	604	417
70°	2009	420	291
75°	1745	273	227
80°	1368	204	187
85°	706	170	138

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2669 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.8	5.2
10°-20°	113.6	14.0
20°-30°	157.0	19.4
30°-40°	166.4	20.5
40°-50°	145.2	17.9
50°-60°	103.3	12.7
60°-70°	57.4	7.1
70°-80°	22.1	2.7
80°-90°	3.8	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°	312.4	38.5
0°-40°	478.7	59.1
0°-60°	727.2	89.7
0°-90°	810.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	810.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	448	448	448	448	448	
5°	443	446	442	441	443	42
15°	422	418	402	393	391	119
25°	381	368	338	317	309	175
35°	328	305	260	228	216	205
45°	267	235	178	142	131	206
55°	201	161	100	69	61	180
65°	133	87	36	27	25	131
75°	64	25	10	8	8	68
85°	9	2	2	2	2	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	448.5	448.5	448.5	448.5	448.5
2.5°	445.1	449.7	446.0	446.4	446.8
5°	443.1	446.4	441.8	440.6	442.6
7.5°	439.7	442.2	434.3	431.4	432.7
10°	434.8	435.6	424.8	420.6	420.2
12.5°	428.5	427.3	414.0	407.3	406.9
15°	421.5	417.7	401.5	392.8	390.7
17.5°	412.7	406.9	387.0	375.8	372.5
20°	402.8	394.9	372.1	357.5	352.1
22.5°	392.8	382.0	355.4	337.2	331.4
25°	381.2	368.3	337.6	316.8	308.9
27.5°	368.7	353.4	319.3	295.2	285.7
30°	355.9	338.0	300.2	273.2	262.8
32.5°	342.2	321.8	280.3	250.8	240.0
35°	327.6	305.2	259.9	228.4	216.3
37.5°	313.1	288.2	240.0	206.4	193.9
40°	297.7	270.7	218.4	183.9	171.1
42.5°	282.8	252.9	198.1	162.8	151.1
45°	267.0	235.0	177.7	142.0	130.8
47.5°	250.8	216.3	157.4	122.5	111.3
50°	234.2	198.1	137.4	103.4	93.4
52.5°	217.6	179.8	118.8	85.1	76.4
55°	201.0	161.1	99.7	68.9	60.6
57.5°	184.4	142.8	81.8	54.0	46.5
60°	167.3	124.2	64.8	39.9	37.8
62.5°	150.3	105.9	50.2	32.8	31.1
65°	132.9	87.2	36.1	26.6	24.9
67.5°	115.4	70.2	26.2	20.3	19.1
70°	97.2	53.6	20.3	15.4	14.1
72.5°	79.7	38.6	14.5	11.2	10.8
75°	63.9	24.9	10.0	8.3	8.3
77.5°	48.2	14.9	7.1	6.2	6.2
80°	33.6	8.7	5.0	4.6	4.6
82.5°	20.3	4.6	3.3	2.9	2.9
85°	8.7	2.5	2.1	1.7	1.7
87.5°	1.7	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)