

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: P1056434

Luminaire Tested: S125R3DR-S375D940-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1056434  
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-S375D940-X4F0-XX-UDD-FLL-S  
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

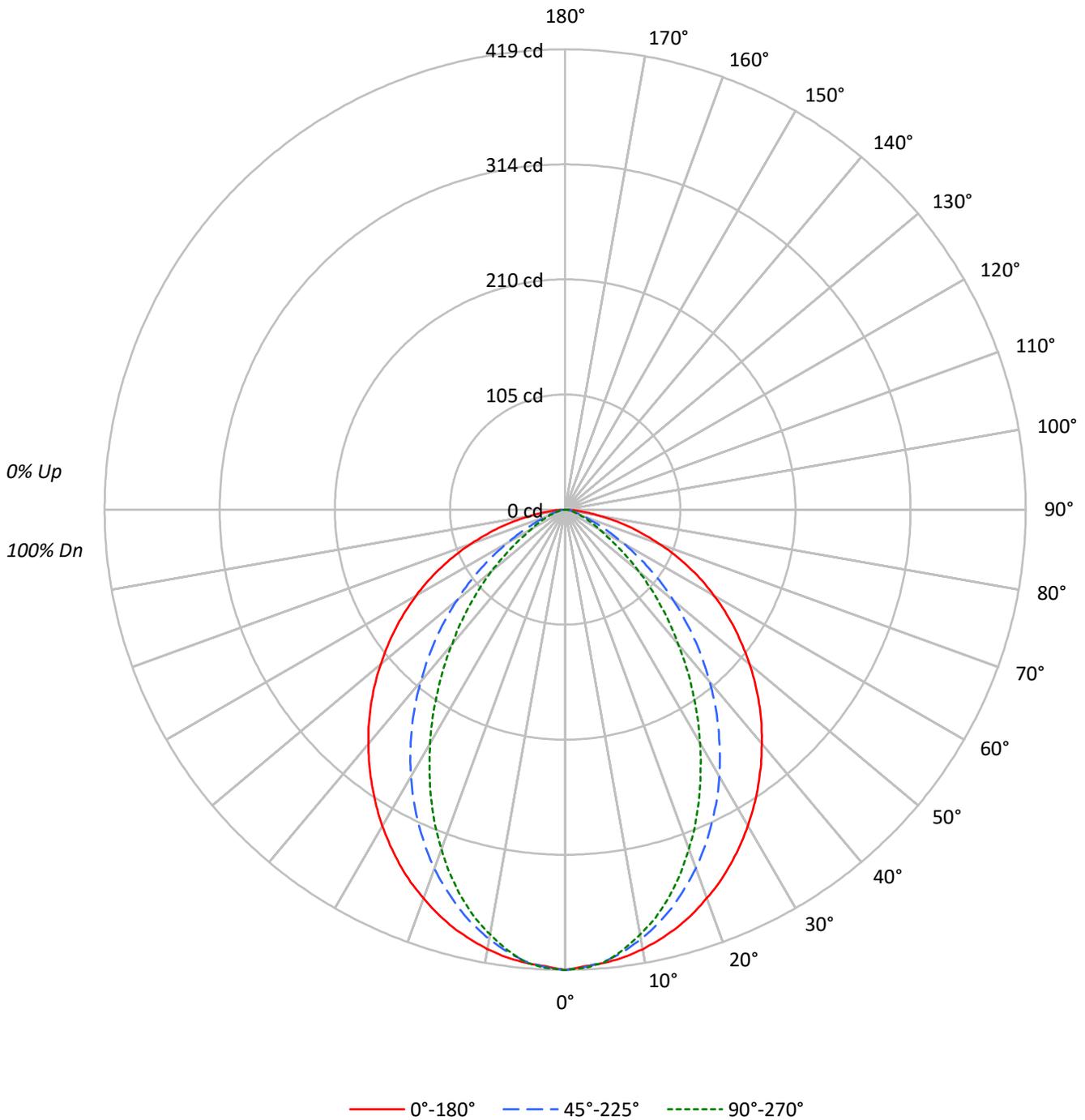
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 757.7 lumens  
Efficiency: N/A  
Efficacy: 60.1 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				
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				
2	102	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47				
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	54	48	44	42				
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35				
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				

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

	0°	45°	90°
0°	2963	2963	2963
5°	2939	2931	2936
10°	2917	2851	2820
15°	2883	2747	2673
20°	2832	2617	2476
25°	2779	2461	2253
30°	2715	2291	2006
35°	2643	2097	1745
40°	2568	1884	1476
45°	2495	1661	1223
50°	2407	1413	960
55°	2316	1147	699
60°	2211	855	499
65°	2078	565	390
70°	1877	393	273
75°	1633	254	213
80°	1278	191	175
85°	665	154	130

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2495 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.0	5.2
10°-20°	106.2	14.0
20°-30°	146.8	19.4
30°-40°	155.5	20.5
40°-50°	135.7	17.9
50°-60°	96.5	12.7
60°-70°	53.7	7.1
70°-80°	20.6	2.7
80°-90°	3.6	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°	292.0	38.5
0°-40°	447.5	59.1
0°-60°	679.7	89.7
0°-90°	757.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	757.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	419	419	419	419	419	
5°	414	417	413	412	414	39
15°	394	390	375	367	365	111
25°	356	344	316	296	289	164
35°	306	285	243	214	202	192
45°	250	220	166	133	122	192
55°	188	151	93	64	57	168
65°	124	82	34	25	23	123
75°	60	23	9	8	8	63
85°	8	2	2	2	2	12
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	419.2	419.2	419.2	419.2	419.2
2.5°	416.1	420.3	416.8	417.2	417.6
5°	414.1	417.2	413.0	411.8	413.7
7.5°	411.0	413.4	406.0	403.3	404.4
10°	406.4	407.1	397.1	393.2	392.8
12.5°	400.5	399.4	387.0	380.8	380.4
15°	393.9	390.5	375.3	367.2	365.2
17.5°	385.8	380.4	361.7	351.3	348.1
20°	376.5	369.1	347.8	334.2	329.1
22.5°	367.2	357.1	332.2	315.2	309.7
25°	356.3	344.3	315.5	296.1	288.8
27.5°	344.7	330.3	298.5	276.0	267.0
30°	332.6	315.9	280.6	255.4	245.7
32.5°	319.8	300.8	262.0	234.4	224.3
35°	306.2	285.3	243.0	213.5	202.2
37.5°	292.6	269.4	224.3	192.9	181.3
40°	278.3	253.1	204.2	171.9	159.9
42.5°	264.3	236.4	185.1	152.1	141.3
45°	249.6	219.7	166.1	132.7	122.3
47.5°	234.4	202.2	147.1	114.5	104.0
50°	218.9	185.1	128.5	96.6	87.3
52.5°	203.4	168.1	111.0	79.6	71.4
55°	187.9	150.6	93.1	64.4	56.7
57.5°	172.3	133.5	76.5	50.5	43.5
60°	156.4	116.0	60.5	37.3	35.3
62.5°	140.5	99.0	47.0	30.7	29.1
65°	124.2	81.5	33.8	24.8	23.3
67.5°	107.9	65.6	24.5	19.0	17.9
70°	90.8	50.1	19.0	14.4	13.2
72.5°	74.5	36.1	13.6	10.5	10.1
75°	59.8	23.3	9.3	7.8	7.8
77.5°	45.0	14.0	6.6	5.8	5.8
80°	31.4	8.2	4.7	4.3	4.3
82.5°	19.0	4.3	3.1	2.7	2.7
85°	8.2	2.3	1.9	1.6	1.6
87.5°	1.6	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)