

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: P1061662

Luminaire Tested: S125RDR-S375D940-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061662  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S375D940-X4F0-XX-UDD-SVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

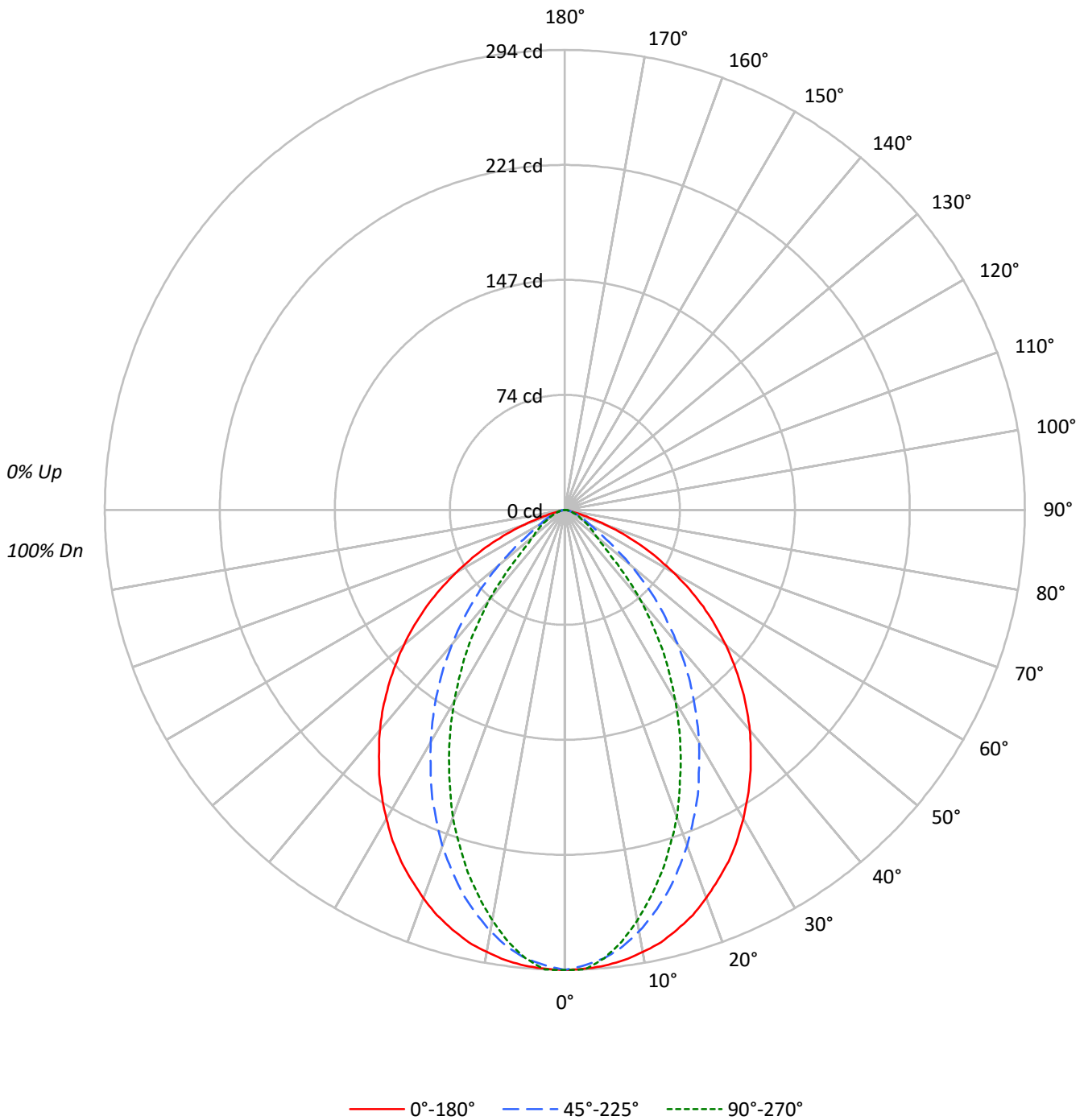
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 425.4 lumens  
Efficiency: N/A  
Efficacy: 34.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 12.5  
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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90				
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71				
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63				
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57				
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52				
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47				
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43				
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36				

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

	0°	45°	90°
0°	2025	2025	2025
5°	2022	1989	1989
10°	2007	1913	1863
15°	1979	1806	1708
20°	1936	1676	1534
25°	1883	1528	1332
30°	1813	1363	1123
35°	1737	1194	911
40°	1653	1008	675
45°	1554	808	408
50°	1437	592	281
55°	1296	364	233
60°	1102	246	186
65°	870	189	147
70°	550	135	121
75°	178	98	98
80°	59	75	87
85°	32	55	55

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1554 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.2	6.4
10°-20°	71.8	16.9
20°-30°	94.5	22.2
30°-40°	92.9	21.8
40°-50°	70.3	16.5
50°-60°	42.6	10.0
60°-70°	20.1	4.7
70°-80°	5.2	1.2
80°-90°	0.8	0.2
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°	193.5	45.5
0°-40°	286.4	67.3
0°-60°	399.2	93.9
0°-90°	425.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	425.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	294	294	294	294	294	
5°	293	292	288	288	288	28
15°	278	270	253	244	240	78
25°	248	229	201	182	175	114
35°	207	179	142	117	108	129
45°	160	126	83	53	42	123
55°	108	74	30	21	19	96
65°	53	27	12	10	9	53
75°	7	4	4	4	4	10
85°	0	0	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	294.1	294.1	294.1	294.1	294.1
2.5°	293.7	293.7	291.5	294.1	294.1
5°	292.6	291.9	287.8	288.1	287.8
7.5°	290.4	288.9	281.8	279.9	278.4
10°	287.0	284.0	273.6	269.1	266.5
12.5°	283.3	278.1	263.9	257.5	253.4
15°	277.7	270.2	253.4	243.7	239.6
17.5°	271.7	260.9	241.1	229.5	224.2
20°	264.2	251.5	228.7	214.5	209.3
22.5°	256.0	241.1	214.5	198.8	191.7
25°	247.8	229.1	201.1	182.4	175.3
27.5°	238.4	217.1	185.7	166.3	158.5
30°	228.0	205.2	171.5	151.4	141.3
32.5°	217.5	192.8	156.6	134.5	124.5
35°	206.7	179.0	142.0	117.0	108.4
37.5°	195.1	165.9	127.1	100.9	90.8
40°	183.9	152.9	112.1	84.5	75.1
42.5°	171.9	139.8	97.2	68.4	57.9
45°	159.6	125.6	83.0	52.7	41.9
47.5°	146.9	112.9	68.8	38.9	31.4
50°	134.2	99.4	55.3	28.8	26.2
52.5°	121.1	86.3	41.9	23.9	22.8
55°	108.0	74.0	30.3	20.6	19.4
57.5°	94.6	60.5	22.8	17.6	16.4
60°	80.0	48.6	17.9	14.6	13.5
62.5°	66.5	38.1	14.6	12.0	11.2
65°	53.4	27.3	11.6	9.7	9.0
67.5°	40.0	18.3	9.0	7.5	7.5
70°	27.3	12.0	6.7	6.0	6.0
72.5°	16.4	7.1	4.9	4.9	4.9
75°	6.7	4.5	3.7	3.7	3.7
77.5°	2.2	2.6	2.6	3.0	3.0
80°	1.5	1.5	1.9	2.2	2.2
82.5°	0.7	1.1	1.1	1.5	1.5
85°	0.4	0.4	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)