

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: P1175372

Luminaire Tested: S125RDR-S375D940-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1175372  
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-S375D940-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

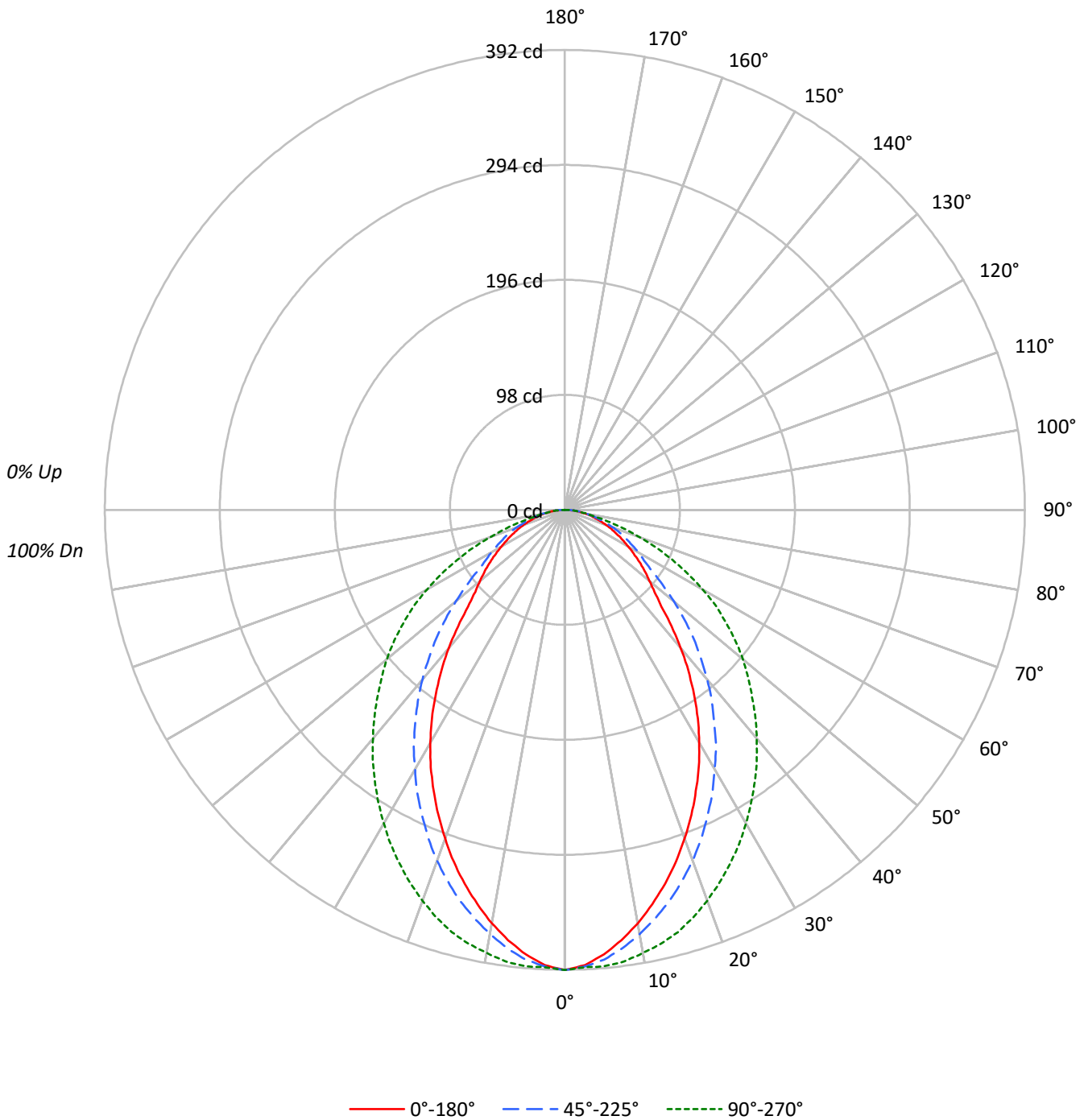
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 738.8 lumens  
Efficiency: N/A  
Efficacy: 59.1 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): 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				100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				30

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

	0°	45°	90°
0°	2700	2700	2700
5°	2630	2660	2699
10°	2502	2567	2681
15°	2352	2458	2655
20°	2186	2332	2597
25°	2008	2185	2529
30°	1821	2030	2453
35°	1612	1866	2373
40°	1382	1697	2286
45°	1134	1510	2198
50°	1009	1298	2122
55°	932	1088	2014
60°	858	990	1866
65°	797	934	1649
70°	745	872	1347
75°	700	806	1011
80°	658	737	726
85°	608	735	608

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2198 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.3	4.9
10°-20°	97.9	13.2
20°-30°	134.6	18.2
30°-40°	142.8	19.3
40°-50°	125.0	16.9
50°-60°	95.9	13.0
60°-70°	63.9	8.6
70°-80°	32.8	4.4
80°-90°	9.7	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°	268.8	36.4
0°-40°	411.6	55.7
0°-60°	632.5	85.6
0°-90°	738.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	738.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	392	392	392	392	392	
5°	380	386	385	388	390	36
15°	330	338	345	361	372	92
25°	264	273	288	312	333	121
35°	192	201	222	255	282	119
45°	116	126	155	194	226	92
55°	78	79	91	134	168	70
65°	49	49	57	75	101	49
75°	26	28	30	32	38	28
85°	8	9	9	9	8	9
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	392.2	392.2	392.2	392.2	392.2
2.5°	388.5	392.5	389.5	389.8	390.2
5°	380.5	385.5	384.8	387.5	390.5
7.5°	369.9	375.2	376.8	383.5	388.2
10°	357.9	363.9	367.2	377.2	383.5
12.5°	344.2	351.2	356.5	369.5	378.8
15°	329.9	337.6	344.9	361.2	372.5
17.5°	314.6	322.3	331.9	350.5	364.2
20°	298.3	306.6	318.3	338.2	354.5
22.5°	281.6	290.3	303.6	325.6	344.2
25°	264.3	273.3	287.6	311.9	332.9
27.5°	247.3	255.7	272.3	298.3	321.3
30°	229.0	237.7	255.3	284.0	308.6
32.5°	210.7	219.4	239.7	269.7	295.6
35°	191.8	200.7	222.0	254.7	282.3
37.5°	172.8	182.1	205.7	239.4	268.7
40°	153.8	163.8	188.8	224.0	254.3
42.5°	134.5	145.1	171.4	209.1	240.4
45°	116.5	126.2	155.1	193.8	225.7
47.5°	103.5	109.2	137.8	178.1	211.7
50°	94.2	96.9	121.2	163.1	198.1
52.5°	85.9	87.6	104.9	149.1	183.1
55°	77.6	79.2	90.6	134.5	167.8
57.5°	69.6	70.6	79.9	119.8	152.5
60°	62.3	62.9	71.9	105.2	135.5
62.5°	55.6	55.9	64.3	90.2	118.5
65°	48.9	49.3	57.3	75.2	101.2
67.5°	42.9	42.9	50.6	61.6	84.6
70°	37.0	37.0	43.3	49.9	66.9
72.5°	31.6	32.3	36.6	40.3	52.3
75°	26.3	28.0	30.3	32.0	38.0
77.5°	21.3	23.3	24.3	25.0	25.3
80°	16.6	18.0	18.6	19.0	18.3
82.5°	12.3	13.3	13.6	13.6	12.7
85°	7.7	8.7	9.3	9.0	7.7
87.5°	3.7	5.0	5.3	4.7	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)