

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: P1061674

Luminaire Tested: S125RDR-S375D950-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061674  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S375D950-X4F0-XX-UDD-WVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

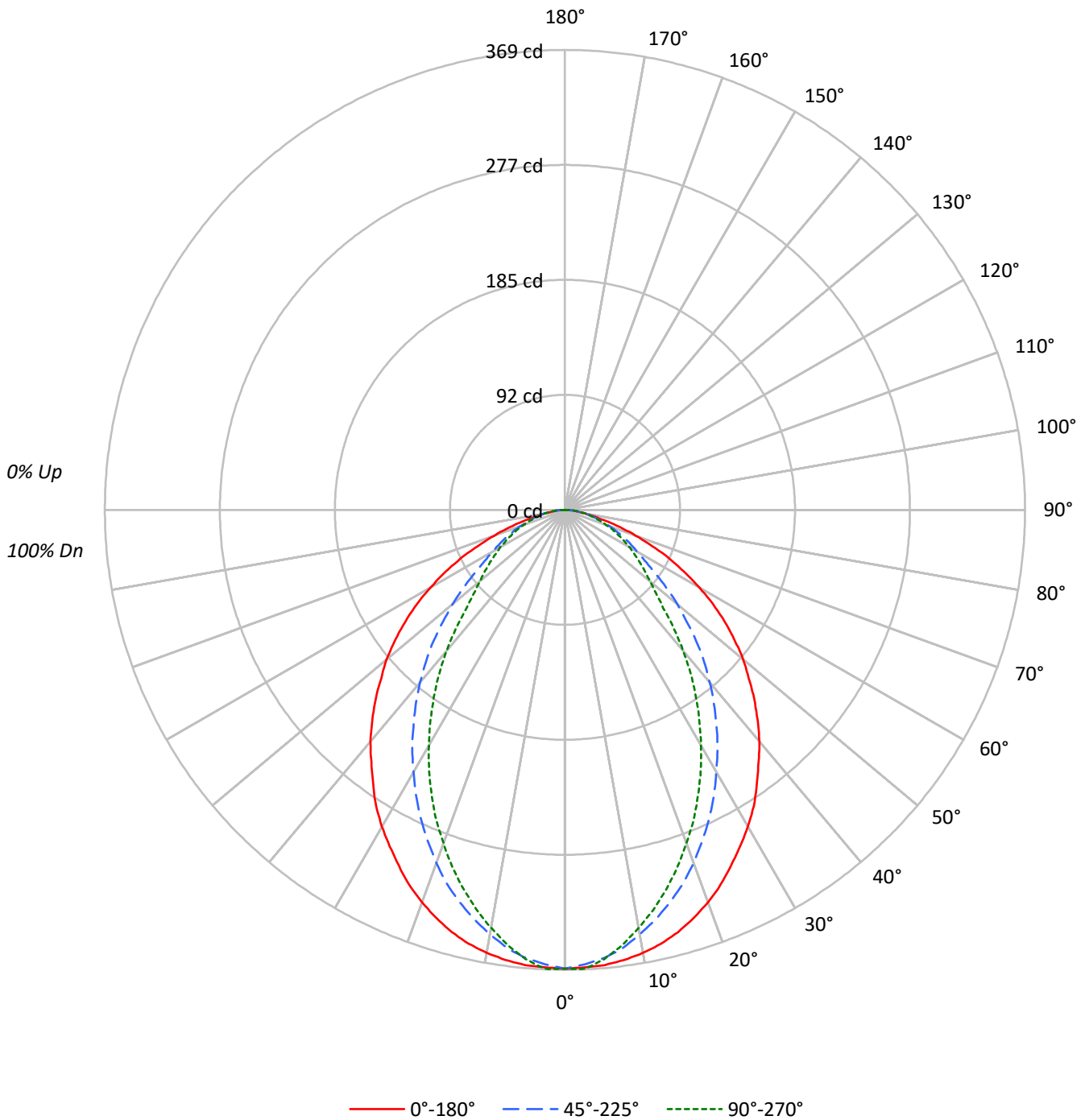
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 697.6 lumens  
Efficiency: N/A  
Efficacy: 55.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11  
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

TEST NUMBER: P1061674

CATALOG NUMBER: S125RDR-S375D950-X4F0-XX-UDD-WVL-B

### 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	108	104	100	97	100	97	94	96	93	91	92	90	89	87				87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75				75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65				65
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57				57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50				50
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45				45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40				40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36				36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30				30

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

	0°	45°	90°
0°	2535	2535	2535
5°	2534	2495	2501
10°	2524	2418	2381
15°	2499	2323	2243
20°	2455	2209	2086
25°	2394	2078	1920
30°	2333	1930	1736
35°	2255	1781	1539
40°	2181	1624	1326
45°	2091	1452	1087
50°	2000	1259	951
55°	1876	1052	879
60°	1712	920	821
65°	1499	841	762
70°	1216	757	709
75°	873	692	660
80°	603	619	619
85°	442	537	569

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2091 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.2	4.9
10°-20°	92.6	13.3
20°-30°	128.0	18.3
30°-40°	136.3	19.5
40°-50°	119.8	17.2
50°-60°	90.8	13.0
60°-70°	59.0	8.5
70°-80°	29.2	4.2
80°-90°	7.7	1.1
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°	254.8	36.5
0°-40°	391.2	56.1
0°-60°	601.8	86.3
0°-90°	697.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	697.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	368	368	368	368	368	
5°	367	366	361	362	362	35
15°	351	343	326	318	315	99
25°	315	298	274	260	253	145
35°	268	244	212	193	183	168
45°	215	185	149	122	112	166
55°	156	126	88	76	73	139
65°	92	68	52	48	47	91
75°	33	29	26	25	25	37
85°	6	6	7	7	7	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	368.2	368.2	368.2	368.2	368.2
2.5°	367.4	368.2	365.0	367.8	368.6
5°	366.6	365.8	361.0	362.2	361.8
7.5°	364.2	362.6	354.6	353.8	352.2
10°	361.0	357.0	345.8	343.0	340.6
12.5°	356.6	350.2	336.6	331.1	328.3
15°	350.6	342.6	325.9	318.3	314.7
17.5°	343.4	332.3	314.7	304.3	300.3
20°	335.1	321.9	301.5	289.5	284.7
22.5°	325.9	310.3	287.5	274.7	269.5
25°	315.1	297.9	273.5	259.5	252.7
27.5°	304.3	285.1	258.7	243.1	235.9
30°	293.5	271.5	242.7	225.9	218.3
32.5°	281.9	257.5	227.9	209.5	200.7
35°	268.3	243.5	211.9	192.7	183.1
37.5°	255.1	228.7	196.3	174.7	165.5
40°	242.7	214.7	180.7	157.1	147.5
42.5°	228.7	199.9	165.1	140.3	129.5
45°	214.7	184.7	149.1	122.3	111.6
47.5°	199.9	170.3	132.3	106.0	98.8
50°	186.7	155.5	117.5	93.6	88.8
52.5°	171.5	141.1	102.4	84.0	80.8
55°	156.3	125.5	87.6	75.6	73.2
57.5°	140.7	111.6	76.0	68.4	66.0
60°	124.3	97.2	66.8	60.8	59.6
62.5°	108.0	82.4	58.8	54.4	52.8
65°	92.0	68.4	51.6	47.6	46.8
67.5°	75.6	55.6	44.4	41.6	41.2
70°	60.4	45.2	37.6	36.0	35.2
72.5°	46.4	36.0	31.6	30.4	30.0
75°	32.8	28.8	26.0	25.2	24.8
77.5°	22.0	22.0	20.8	20.0	20.4
80°	15.2	16.0	15.6	15.6	15.6
82.5°	10.0	10.8	11.2	11.2	11.2
85°	5.6	6.4	6.8	6.8	7.2
87.5°	2.0	2.4	2.8	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)