

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: P1061673

Luminaire Tested: S125RDR-S375D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D950-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

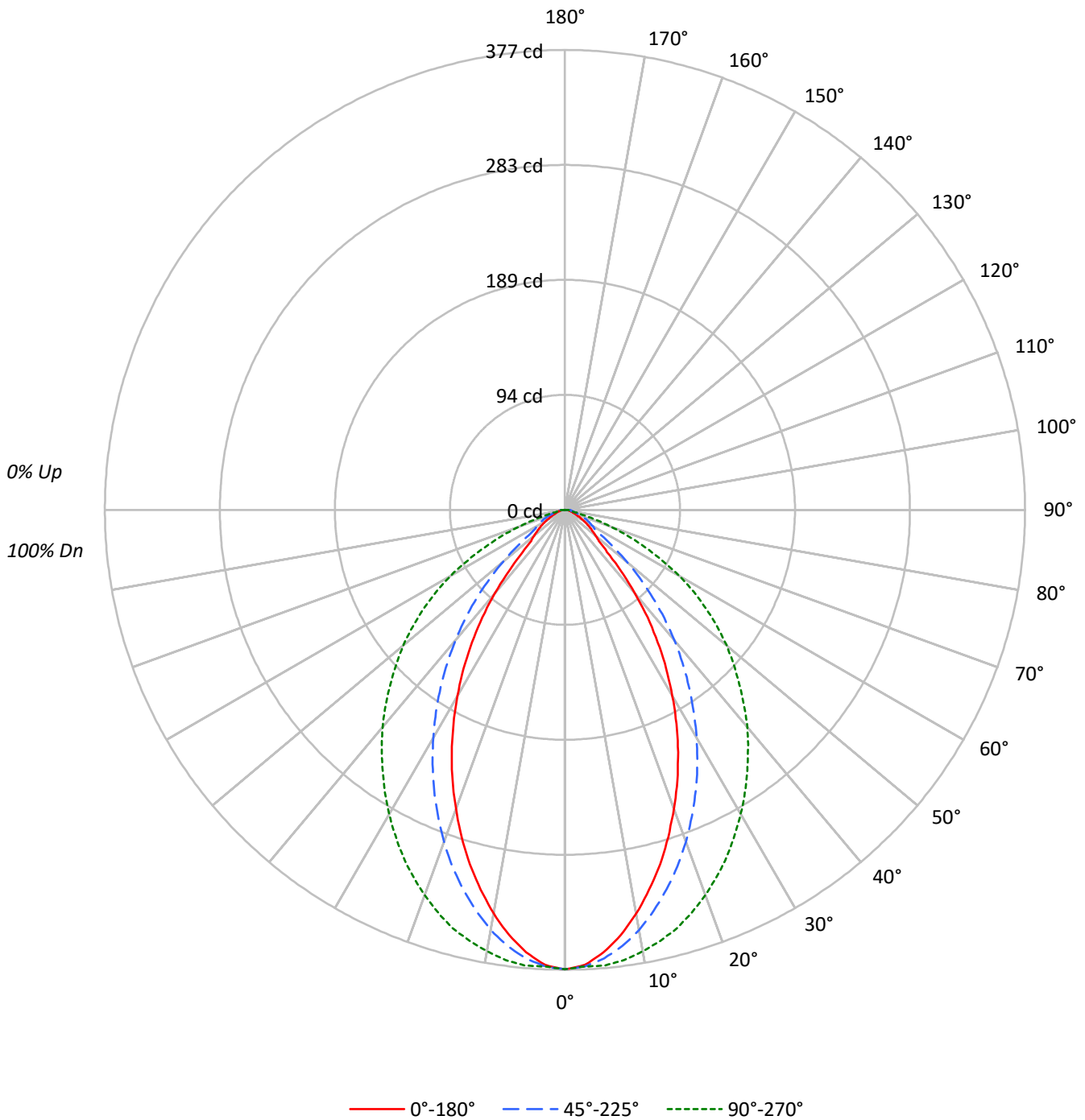
Lumens per Lamp: N/A
Luminaire Lumens: 545.4 lumens
Efficiency: N/A
Efficacy: 43.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62				62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2593	2593	2593
5°	2517	2550	2592
10°	2350	2446	2569
15°	2145	2296	2530
20°	1912	2123	2463
25°	1666	1927	2383
30°	1400	1715	2291
35°	1114	1490	2190
40°	802	1252	2090
45°	475	993	1968
50°	351	707	1852
55°	298	437	1696
60°	242	353	1493
65°	189	326	1180
70°	161	282	789
75°	149	245	319
80°	159	254	222
85°	190	379	253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1968 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	6.4
10°-20°	91.1	16.7
20°-30°	119.1	21.8
30°-40°	116.1	21.3
40°-50°	87.0	16.0
50°-60°	54.6	10.0
60°-70°	28.4	5.2
70°-80°	10.3	1.9
80°-90°	4.1	0.7
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°	245.0	44.9
0°-40°	361.1	66.2
0°-60°	502.7	92.2
0°-90°	545.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	545.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	377	377	377	377	377	
5°	364	369	369	372	375	34
15°	301	310	322	342	355	84
25°	219	231	254	288	314	100
35°	132	146	177	224	260	82
45°	49	63	102	158	202	41
55°	25	26	36	95	141	22
65°	12	12	20	38	72	12
75°	6	8	9	10	12	6
85°	2	4	5	4	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	376.6	376.6	376.6	376.6	376.6
2.5°	373.4	377.0	374.6	374.6	374.6
5°	364.2	369.0	369.0	371.8	375.0
7.5°	351.4	357.0	360.6	367.4	372.2
10°	336.1	342.9	349.8	361.0	367.4
12.5°	318.9	326.9	336.5	352.2	361.8
15°	300.9	309.7	322.1	342.1	355.0
17.5°	281.3	291.7	306.5	330.5	346.1
20°	260.9	271.3	289.7	316.9	336.1
22.5°	240.5	251.7	271.7	302.5	325.3
25°	219.3	231.3	253.7	288.1	313.7
27.5°	197.7	210.1	234.9	273.3	300.9
30°	176.1	188.9	215.7	257.3	288.1
32.5°	154.5	168.1	196.5	240.9	274.5
35°	132.5	146.5	177.3	224.5	260.5
37.5°	111.2	125.3	158.1	207.7	246.5
40°	89.2	104.4	139.3	190.9	232.5
42.5°	67.6	83.2	120.5	174.1	217.3
45°	48.8	63.2	102.0	157.7	202.1
47.5°	37.6	45.6	83.2	140.9	187.3
50°	32.8	35.2	66.0	125.3	172.9
52.5°	28.4	30.0	49.6	110.8	157.3
55°	24.8	26.0	36.4	95.2	141.3
57.5°	20.8	22.4	28.8	80.0	124.9
60°	17.6	18.4	25.6	66.0	108.4
62.5°	14.4	15.2	22.8	52.0	90.0
65°	11.6	12.4	20.0	38.4	72.4
67.5°	9.6	10.0	16.8	27.2	55.6
70°	8.0	8.4	14.0	18.8	39.2
72.5°	6.8	8.0	11.2	13.6	24.8
75°	5.6	7.6	9.2	9.6	12.0
77.5°	4.8	7.2	7.6	7.6	6.8
80°	4.0	6.0	6.4	6.0	5.6
82.5°	3.2	4.8	5.2	5.2	4.4
85°	2.4	4.0	4.8	4.4	3.2
87.5°	1.6	3.6	4.0	3.6	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)