

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: P1061619

Luminaire Tested: S125RDR-S375D840-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061619
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-S375D840-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

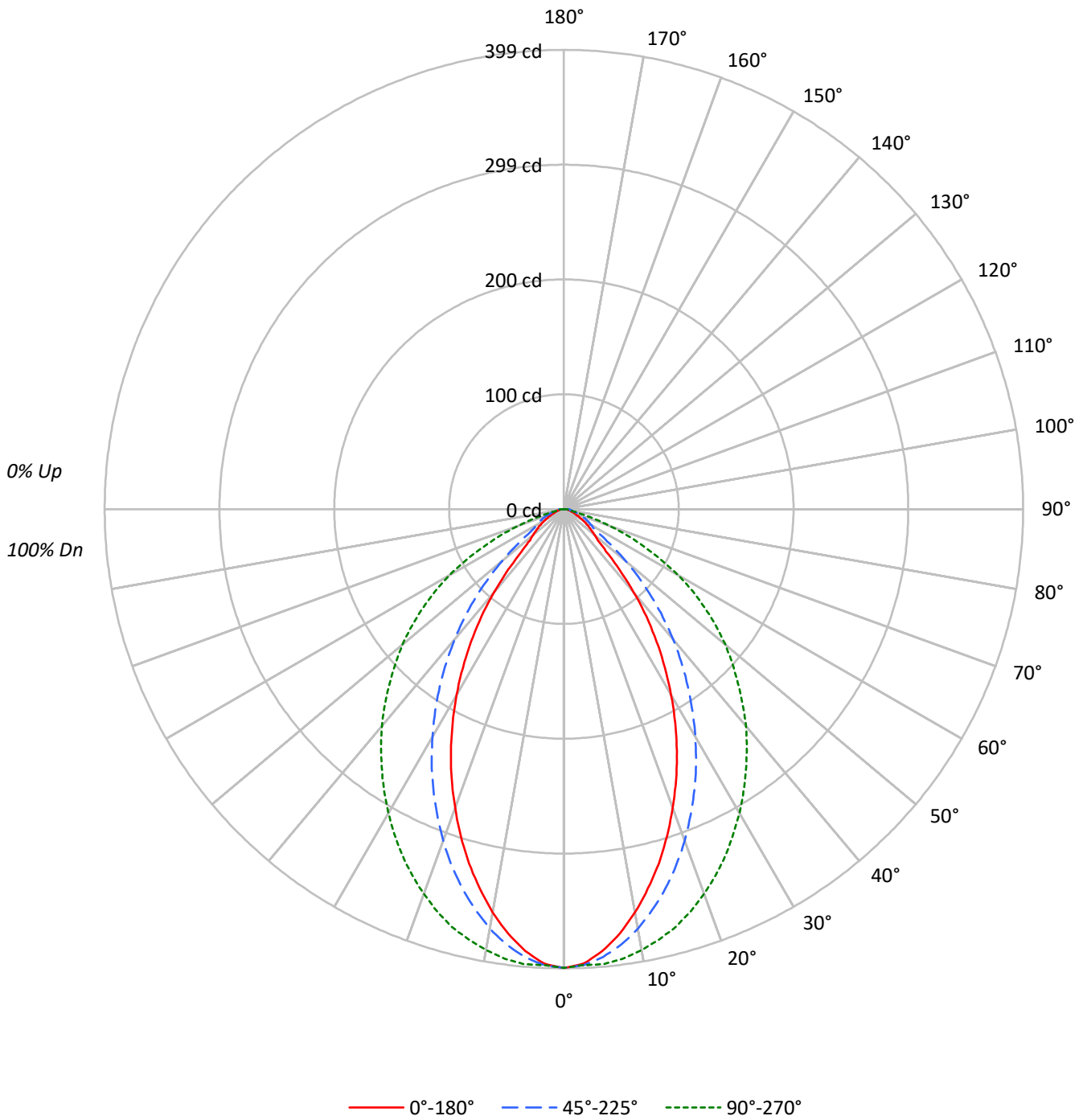
Lumens per Lamp: N/A
Luminaire Lumens: 577.4 lumens
Efficiency: N/A
Efficacy: 46.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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				
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70				
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62				
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39				
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2744	2744	2744
5°	2664	2700	2743
10°	2488	2588	2719
15°	2271	2431	2678
20°	2024	2247	2607
25°	1763	2041	2523
30°	1482	1815	2425
35°	1178	1578	2318
40°	849	1325	2212
45°	503	1052	2083
50°	372	749	1960
55°	316	462	1795
60°	256	373	1581
65°	200	345	1250
70°	171	298	835
75°	157	258	338
80°	167	270	234
85°	197	403	269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2083 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.7	6.4
10°-20°	96.5	16.7
20°-30°	126.1	21.8
30°-40°	122.9	21.3
40°-50°	92.1	16.0
50°-60°	57.8	10.0
60°-70°	30.1	5.2
70°-80°	10.9	1.9
80°-90°	4.3	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°	259.3	44.9
0°-40°	382.2	66.2
0°-60°	532.1	92.2
0°-90°	577.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	577.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	399	399	399	399	399	
5°	386	391	391	394	397	36
15°	319	328	341	362	376	89
25°	232	245	269	305	332	106
35°	140	155	188	238	276	87
45°	52	67	108	167	214	43
55°	26	28	38	101	150	23
65°	12	13	21	41	77	13
75°	6	8	10	10	13	6
85°	2	4	5	5	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	398.6	398.6	398.6	398.6	398.6
2.5°	395.2	399.0	396.5	396.5	396.5
5°	385.5	390.6	390.6	393.5	396.9
7.5°	371.9	377.9	381.7	388.9	394.0
10°	355.8	363.0	370.2	382.1	388.9
12.5°	337.6	346.1	356.3	372.8	382.9
15°	318.6	327.9	341.0	362.2	375.7
17.5°	297.8	308.8	324.5	349.9	366.4
20°	276.2	287.2	306.7	335.5	355.8
22.5°	254.6	266.4	287.6	320.2	344.4
25°	232.1	244.8	268.6	305.0	332.1
27.5°	209.3	222.4	248.7	289.3	318.6
30°	186.4	199.9	228.3	272.4	305.0
32.5°	163.5	177.9	208.0	255.0	290.6
35°	140.2	155.0	187.7	237.6	275.8
37.5°	117.8	132.6	167.3	219.9	260.9
40°	94.5	110.6	147.4	202.1	246.1
42.5°	71.6	88.1	127.5	184.3	230.0
45°	51.7	66.9	108.0	166.9	213.9
47.5°	39.8	48.3	88.1	149.1	198.2
50°	34.7	37.3	69.9	132.6	183.0
52.5°	30.1	31.8	52.5	117.3	166.5
55°	26.3	27.5	38.5	100.8	149.5
57.5°	22.0	23.7	30.5	84.7	132.2
60°	18.6	19.5	27.1	69.9	114.8
62.5°	15.2	16.1	24.1	55.1	95.3
65°	12.3	13.1	21.2	40.7	76.7
67.5°	10.2	10.6	17.8	28.8	58.9
70°	8.5	8.9	14.8	19.9	41.5
72.5°	7.2	8.5	11.9	14.4	26.3
75°	5.9	8.0	9.7	10.2	12.7
77.5°	5.1	7.6	8.0	8.0	7.2
80°	4.2	6.4	6.8	6.4	5.9
82.5°	3.4	5.1	5.5	5.5	4.7
85°	2.5	4.2	5.1	4.7	3.4
87.5°	1.7	3.8	4.2	3.8	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)