

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: P1061637

Luminaire Tested: S125RDR-S375D927-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061637
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-S375D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

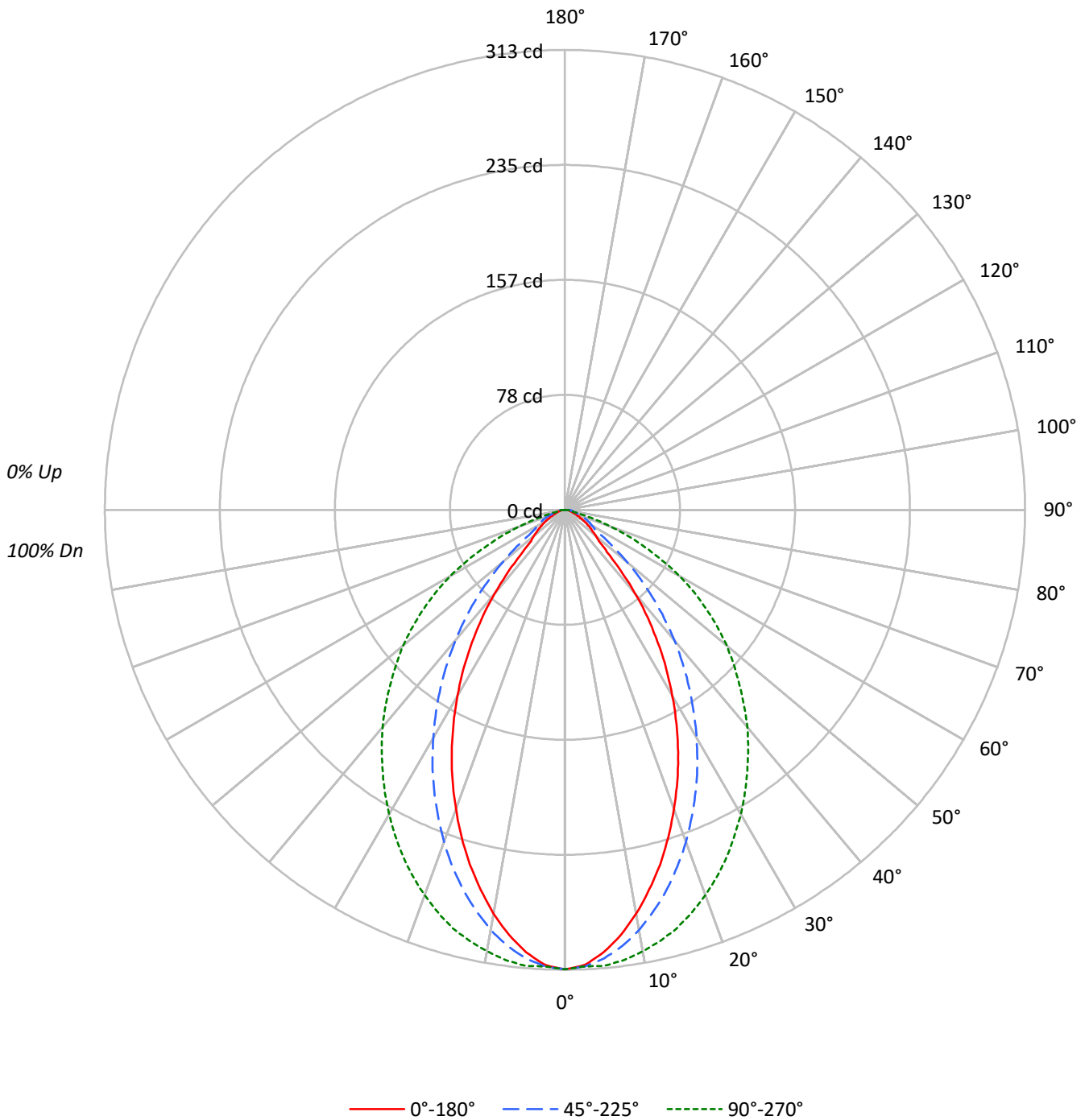
Lumens per Lamp: N/A
Luminaire Lumens: 452.9 lumens
Efficiency: N/A
Efficacy: 36.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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			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°	2153	2153	2153
5°	2090	2118	2152
10°	1951	2030	2132
15°	1781	1907	2101
20°	1588	1763	2045
25°	1383	1601	1979
30°	1162	1424	1903
35°	925	1237	1818
40°	666	1039	1736
45°	394	825	1634
50°	291	587	1538
55°	247	363	1408
60°	201	293	1241
65°	156	270	979
70°	133	234	656
75°	125	202	266
80°	131	210	186
85°	158	316	213

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1634 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	6.4
10°-20°	75.7	16.7
20°-30°	98.9	21.8
30°-40°	96.4	21.3
40°-50°	72.3	16.0
50°-60°	45.3	10.0
60°-70°	23.6	5.2
70°-80°	8.5	1.9
80°-90°	3.4	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°	203.4	44.9
0°-40°	299.8	66.2
0°-60°	417.4	92.2
0°-90°	452.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	452.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	313	313	313	313	313	
5°	302	306	306	309	311	28
15°	250	257	268	284	295	70
25°	182	192	211	239	260	83
35°	110	122	147	186	216	68
45°	40	52	85	131	168	34
55°	21	22	30	79	117	18
65°	10	10	17	32	60	10
75°	5	6	8	8	10	5
85°	2	3	4	4	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	312.7	312.7	312.7	312.7	312.7
2.5°	310.0	313.0	311.0	311.0	311.0
5°	302.4	306.4	306.4	308.7	311.4
7.5°	291.8	296.4	299.4	305.0	309.0
10°	279.1	284.8	290.4	299.7	305.0
12.5°	264.8	271.5	279.5	292.4	300.4
15°	249.9	257.2	267.5	284.1	294.7
17.5°	233.6	242.2	254.5	274.5	287.4
20°	216.7	225.3	240.6	263.2	279.1
22.5°	199.7	209.0	225.6	251.2	270.2
25°	182.1	192.1	210.7	239.3	260.5
27.5°	164.2	174.5	195.1	227.0	249.9
30°	146.2	156.8	179.1	213.7	239.3
32.5°	128.3	139.6	163.2	200.0	228.0
35°	110.0	121.6	147.2	186.4	216.3
37.5°	92.4	104.0	131.3	172.5	204.7
40°	74.1	86.7	115.6	158.5	193.1
42.5°	56.2	69.1	100.0	144.5	180.4
45°	40.5	52.5	84.7	130.9	167.8
47.5°	31.2	37.9	69.1	117.0	155.5
50°	27.2	29.2	54.8	104.0	143.6
52.5°	23.6	24.9	41.2	92.0	130.6
55°	20.6	21.6	30.2	79.1	117.3
57.5°	17.3	18.6	23.9	66.5	103.7
60°	14.6	15.3	21.3	54.8	90.1
62.5°	12.0	12.6	18.9	43.2	74.8
65°	9.6	10.3	16.6	31.9	60.1
67.5°	8.0	8.3	14.0	22.6	46.2
70°	6.6	7.0	11.6	15.6	32.6
72.5°	5.6	6.6	9.3	11.3	20.6
75°	4.7	6.3	7.6	8.0	10.0
77.5°	4.0	6.0	6.3	6.3	5.6
80°	3.3	5.0	5.3	5.0	4.7
82.5°	2.7	4.0	4.3	4.3	3.7
85°	2.0	3.3	4.0	3.7	2.7
87.5°	1.3	3.0	3.3	3.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)