

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: P1061633

Luminaire Tested: S125RDR-S375D927-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D927-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

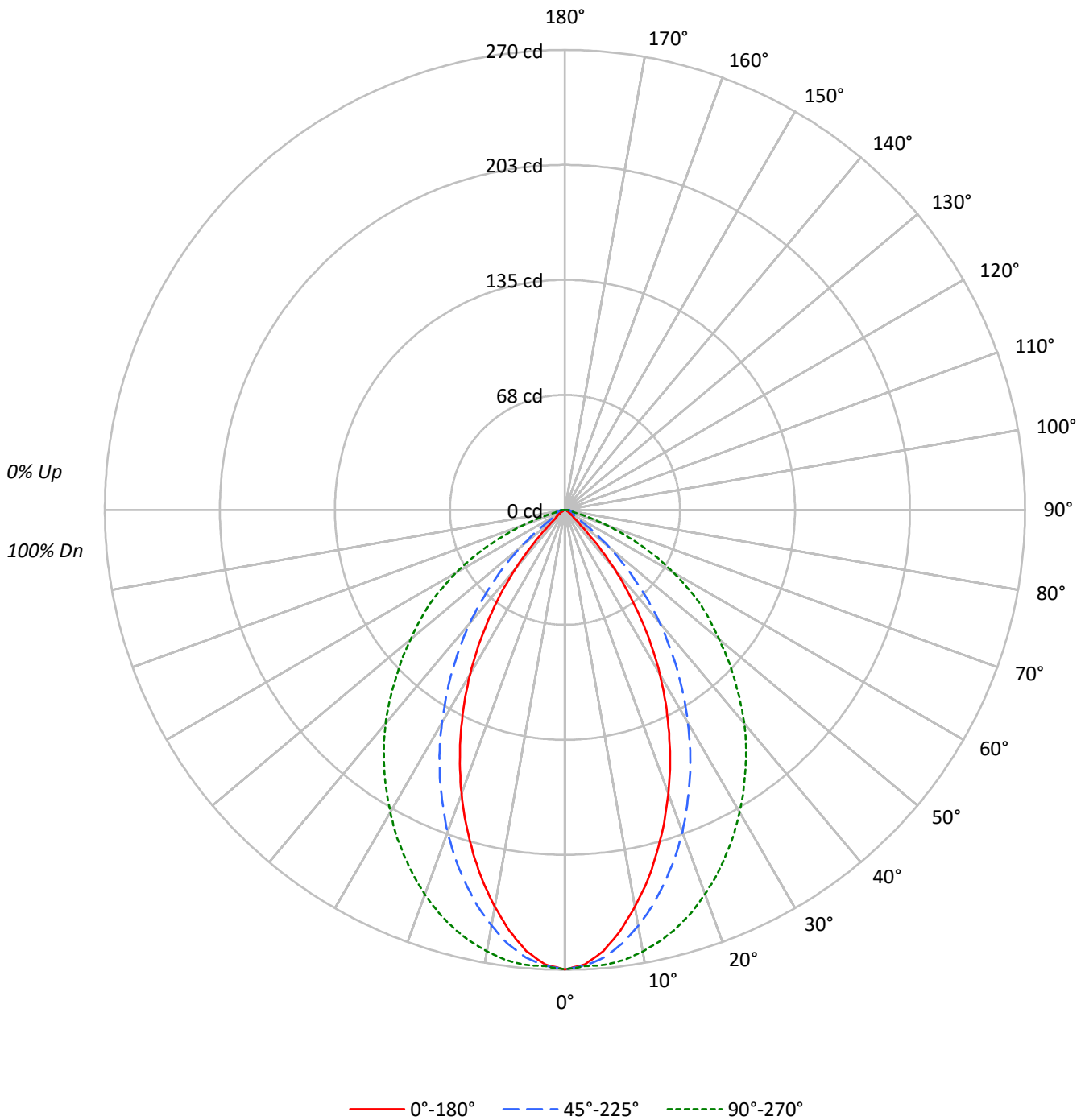
Lumens per Lamp: N/A
Luminaire Lumens: 347.1 lumens
Efficiency: N/A
Efficacy: 27.8 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65				
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49				
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45				
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1858	1858	1858
5°	1796	1823	1854
10°	1654	1733	1840
15°	1485	1613	1810
20°	1300	1476	1760
25°	1098	1318	1699
30°	885	1146	1630
35°	651	967	1553
40°	406	779	1472
45°	152	570	1369
50°	71	356	1264
55°	52	148	1169
60°	37	77	1011
65°	21	91	802
70°	20	107	509
75°	27	106	160
80°	40	131	119
85°	79	213	158

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1369 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.7	7.1
10°-20°	64.1	18.5
20°-30°	81.6	23.5
30°-40°	76.0	21.9
40°-50°	52.0	15.0
50°-60°	28.7	8.3
60°-70°	13.6	3.9
70°-80°	4.3	1.2
80°-90°	2.2	0.6
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°	170.4	49.1
0°-40°	246.4	71.0
0°-60°	327.0	94.2
0°-90°	347.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	347.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	270	270	270	270	270	
5°	260	263	264	266	268	24
15°	208	215	226	243	254	58
25°	144	154	174	201	224	66
35°	77	88	115	153	185	48
45°	16	26	58	104	141	15
55°	4	5	12	58	97	4
65°	1	2	6	21	49	2
75°	1	2	4	4	6	1
85°	1	2	3	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	269.8	269.8	269.8	269.8	269.8
2.5°	267.2	269.8	267.8	267.8	268.2
5°	259.9	263.2	263.8	265.8	268.2
7.5°	249.2	253.5	256.9	262.5	266.5
10°	236.6	241.9	247.9	257.2	263.2
12.5°	223.3	229.0	237.9	250.9	259.2
15°	208.3	215.0	226.3	243.2	253.9
17.5°	193.1	200.4	214.3	234.3	247.6
20°	177.4	185.1	201.4	223.6	240.2
22.5°	161.2	169.5	187.4	212.7	232.3
25°	144.5	153.5	173.5	201.4	223.6
27.5°	127.9	137.2	159.2	189.7	214.7
30°	111.3	121.0	144.2	177.8	205.0
32.5°	94.4	105.0	129.6	165.8	195.1
35°	77.4	88.4	115.0	152.9	184.8
37.5°	60.8	72.1	100.7	140.6	174.5
40°	45.2	56.5	86.7	128.3	163.8
42.5°	29.2	41.2	72.1	115.6	152.2
45°	15.6	26.3	58.5	103.7	140.6
47.5°	8.3	14.0	45.5	91.7	129.6
50°	6.6	7.6	33.2	79.8	118.0
52.5°	5.3	6.0	21.3	67.5	107.7
55°	4.3	5.0	12.3	57.8	97.4
57.5°	3.3	4.0	7.0	48.2	85.4
60°	2.7	3.0	5.6	38.5	73.4
62.5°	1.7	2.3	5.6	29.9	61.5
65°	1.3	1.7	5.6	21.3	49.2
67.5°	1.3	1.3	5.6	14.0	36.9
70°	1.0	1.0	5.3	9.0	25.3
72.5°	1.0	1.0	4.7	6.0	14.6
75°	1.0	1.7	4.0	4.3	6.0
77.5°	1.0	2.7	3.7	3.7	3.3
80°	1.0	2.7	3.3	3.0	3.0
82.5°	1.0	2.7	2.7	2.7	2.3
85°	1.0	2.3	2.7	2.3	2.0
87.5°	1.0	2.3	2.3	2.3	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)