

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: P1061634

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
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-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

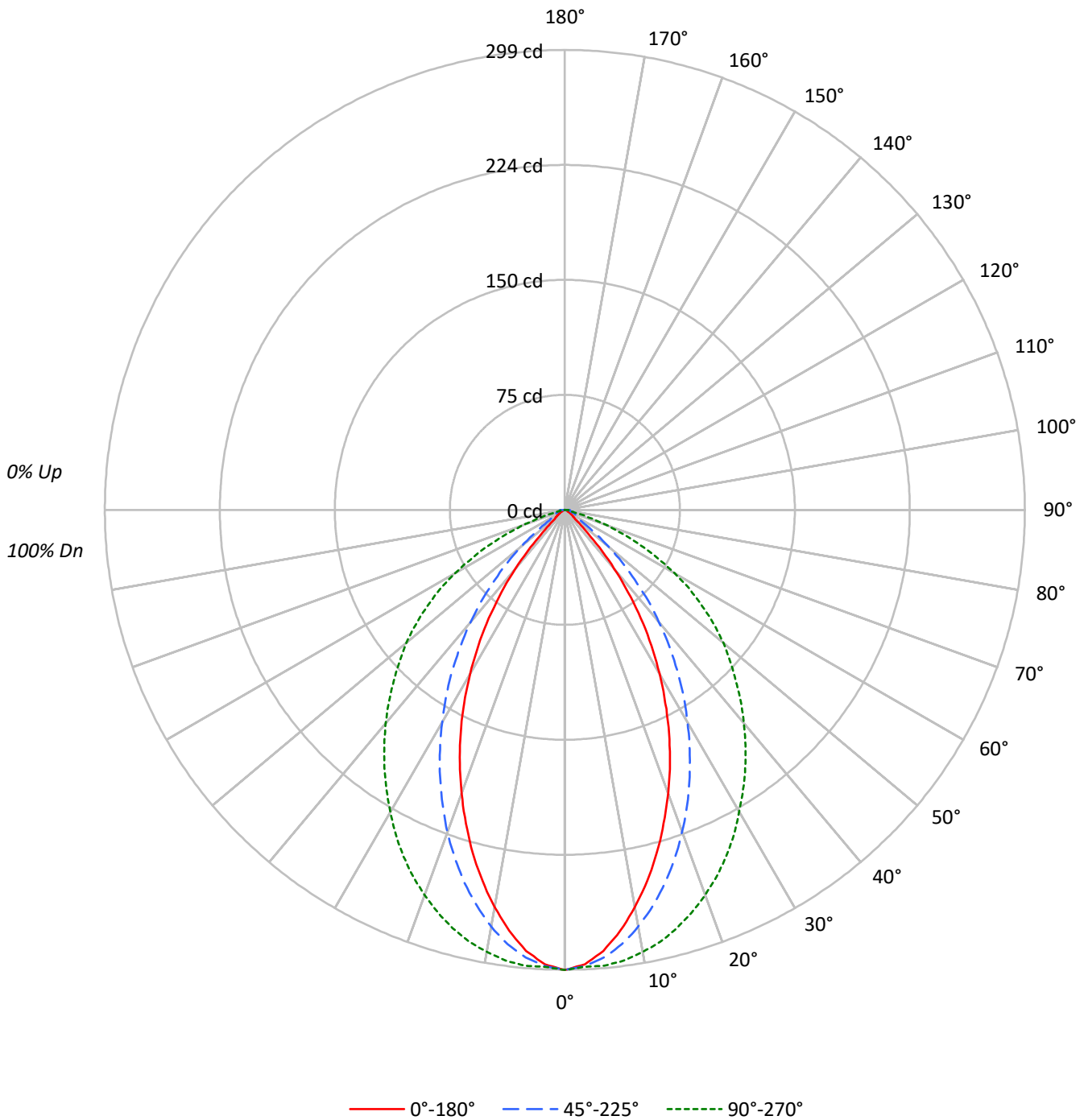
Lumens per Lamp: N/A
Luminaire Lumens: 387.0 lumens
Efficiency: N/A
Efficacy: 31.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	89	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	67	74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2059	2059	2059
5°	1989	2019	2055
10°	1833	1924	2040
15°	1647	1791	2007
20°	1437	1634	1953
25°	1217	1457	1886
30°	978	1268	1802
35°	724	1070	1718
40°	449	855	1628
45°	174	624	1531
50°	81	392	1442
55°	60	168	1308
60°	41	118	1135
65°	28	124	883
70°	26	113	556
75°	35	114	176
80°	52	131	119
85°	79	261	182

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1531 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	7.1
10°-20°	71.1	18.4
20°-30°	90.5	23.4
30°-40°	84.3	21.8
40°-50°	58.0	15.0
50°-60°	32.8	8.5
60°-70°	15.5	4.0
70°-80°	4.8	1.3
80°-90°	2.5	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°	189.0	48.8
0°-40°	273.3	70.6
0°-60°	364.1	94.1
0°-90°	387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	299	299	299	299	299	
5°	288	292	292	295	297	27
15°	231	239	251	270	282	64
25°	160	170	192	224	248	73
35°	86	98	127	171	204	53
45°	18	29	64	116	157	17
55°	5	6	14	67	109	5
65°	2	2	8	24	54	2
75°	1	3	4	5	7	1
85°	1	3	3	3	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	299.1	299.1	299.1	299.1	299.1
2.5°	295.8	298.8	296.8	297.1	297.4
5°	287.8	291.8	292.1	294.8	297.4
7.5°	276.2	281.2	284.8	291.1	295.5
10°	262.2	268.2	275.2	285.5	291.8
12.5°	247.3	254.2	263.9	278.5	287.5
15°	231.0	238.6	251.3	270.2	281.5
17.5°	213.7	222.3	237.6	260.2	274.5
20°	196.1	205.4	223.0	248.9	266.5
22.5°	178.5	188.1	207.7	236.6	257.9
25°	160.2	170.5	191.8	224.0	248.3
27.5°	141.6	152.2	175.8	211.0	238.0
30°	123.0	134.3	159.5	197.7	226.7
32.5°	104.7	116.0	143.6	184.5	215.7
35°	86.1	98.0	127.3	170.8	204.4
37.5°	67.5	80.4	111.3	156.9	192.8
40°	49.9	62.1	95.1	143.2	181.1
42.5°	33.2	45.2	80.4	129.6	169.2
45°	17.9	28.6	64.1	116.0	157.2
47.5°	9.6	15.3	50.2	102.7	145.6
50°	7.6	8.6	36.6	90.4	134.6
52.5°	6.3	7.0	23.9	78.8	122.0
55°	5.0	5.6	14.0	66.8	109.0
57.5°	4.0	4.7	9.0	55.5	96.4
60°	3.0	3.7	8.6	44.5	82.4
62.5°	2.3	2.7	8.0	34.2	67.8
65°	1.7	2.0	7.6	23.9	54.2
67.5°	1.3	1.7	7.0	15.3	40.5
70°	1.3	1.3	5.6	10.0	27.6
72.5°	1.3	2.3	5.0	6.6	16.6
75°	1.3	3.0	4.3	4.7	6.6
77.5°	1.3	3.3	3.7	3.7	3.7
80°	1.3	3.0	3.3	3.3	3.0
82.5°	1.3	2.7	3.0	3.3	2.7
85°	1.0	2.7	3.3	3.0	2.3
87.5°	1.0	2.7	3.0	2.7	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)