

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: P1061660

Luminaire Tested: S125RDR-S375D940-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061660
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-S375D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

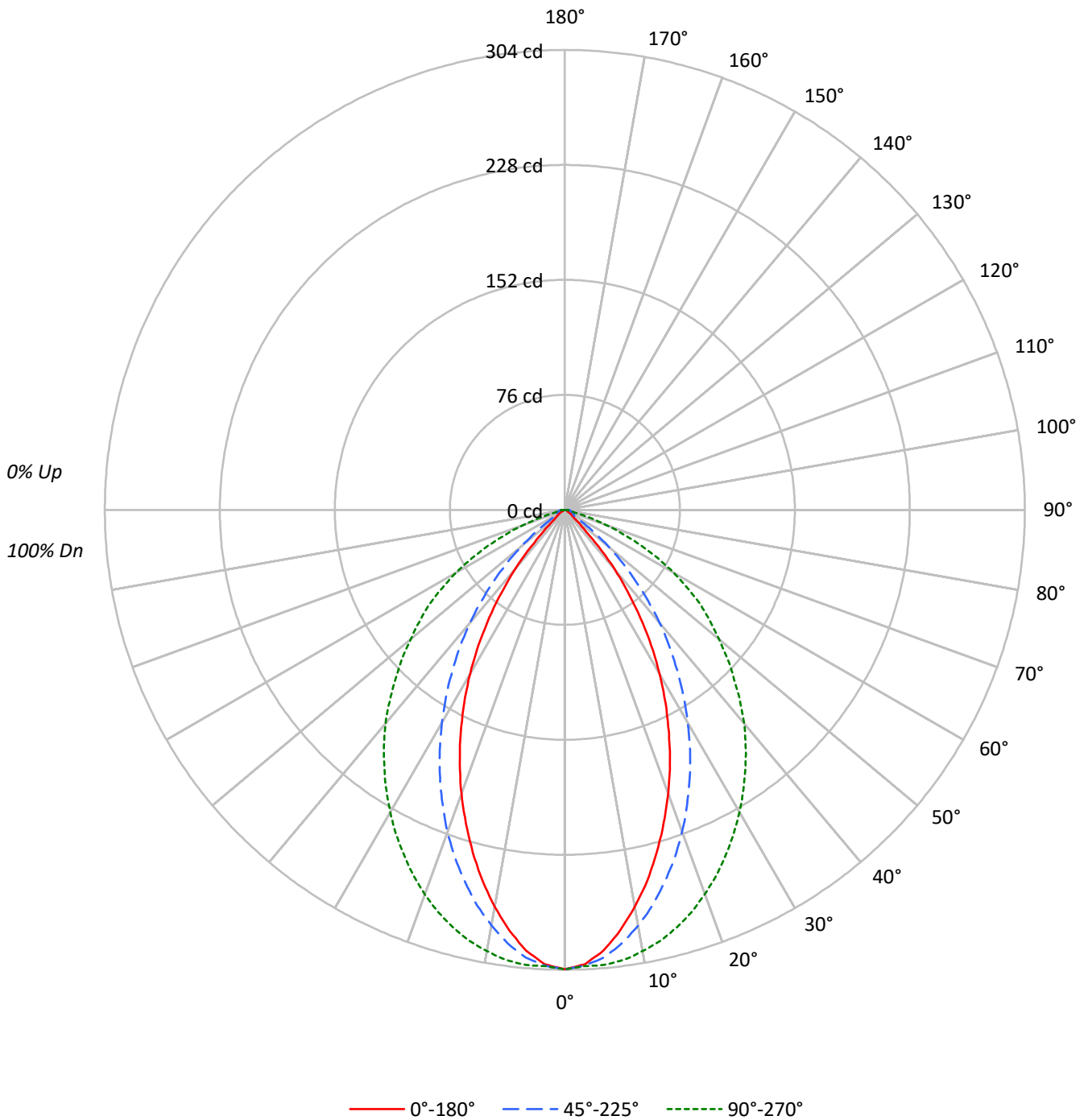
Lumens per Lamp: N/A
Luminaire Lumens: 390.6 lumens
Efficiency: N/A
Efficacy: 31.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1061660

CATALOG NUMBER: S125RDR-S375D940-X4F0-XX-UDD-BVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1061660

CATALOG NUMBER: S125RDR-S375D940-X4F0-XX-UDD-BVL-S

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	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°	2091	2091	2091
5°	2022	2053	2087
10°	1862	1951	2071
15°	1672	1816	2037
20°	1463	1661	1981
25°	1236	1484	1912
30°	996	1290	1835
35°	733	1088	1748
40°	457	877	1657
45°	171	641	1540
50°	80	401	1422
55°	59	166	1316
60°	41	88	1139
65°	24	104	903
70°	22	121	572
75°	29	120	178
80°	44	147	135
85°	87	237	174

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1540 cd/sqm



TEST NUMBER: P1061660

CATALOG NUMBER: S125RDR-S375D940-X4F0-XX-UDD-BVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	7.1
10°-20°	72.1	18.5
20°-30°	91.9	23.5
30°-40°	85.5	21.9
40°-50°	58.6	15.0
50°-60°	32.3	8.3
60°-70°	15.3	3.9
70°-80°	4.8	1.2
80°-90°	2.5	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°	191.8	49.1
0°-40°	277.3	71.0
0°-60°	368.1	94.2
0°-90°	390.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	390.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	304	304	304	304	304	
5°	292	296	297	299	302	27
15°	234	242	255	274	286	65
25°	163	173	195	227	252	74
35°	87	100	129	172	208	54
45°	18	30	66	117	158	17
55°	5	6	14	65	110	4
65°	2	2	6	24	55	2
75°	1	2	4	5	7	1
85°	1	3	3	3	2	1
90°	0	0	0	0	0	



TEST NUMBER: P1061660

CATALOG NUMBER: S125RDR-S375D940-X4F0-XX-UDD-BVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	303.7	303.7	303.7	303.7	303.7
2.5°	300.7	303.7	301.5	301.5	301.9
5°	292.5	296.2	297.0	299.2	301.9
7.5°	280.5	285.4	289.1	295.5	300.0
10°	266.3	272.3	279.0	289.5	296.2
12.5°	251.4	257.7	267.8	282.4	291.8
15°	234.5	242.0	254.7	273.8	285.8
17.5°	217.3	225.5	241.3	263.7	278.7
20°	199.7	208.3	226.7	251.7	270.4
22.5°	181.4	190.8	211.0	239.4	261.5
25°	162.7	172.8	195.3	226.7	251.7
27.5°	144.0	154.5	179.2	213.6	241.6
30°	125.3	136.2	162.3	200.1	230.8
32.5°	106.2	118.2	145.9	186.6	219.6
35°	87.2	99.5	129.4	172.1	208.0
37.5°	68.4	81.2	113.3	158.2	196.4
40°	50.9	63.6	97.6	144.4	184.4
42.5°	32.9	46.4	81.2	130.2	171.3
45°	17.6	29.5	65.8	116.7	158.2
47.5°	9.4	15.7	51.2	103.2	145.9
50°	7.5	8.6	37.4	89.8	132.8
52.5°	6.0	6.7	23.9	75.9	121.2
55°	4.9	5.6	13.8	65.1	109.6
57.5°	3.7	4.5	7.9	54.2	96.1
60°	3.0	3.4	6.4	43.4	82.7
62.5°	1.9	2.6	6.4	33.7	69.2
65°	1.5	1.9	6.4	23.9	55.4
67.5°	1.5	1.5	6.4	15.7	41.5
70°	1.1	1.1	6.0	10.1	28.4
72.5°	1.1	1.1	5.2	6.7	16.5
75°	1.1	1.9	4.5	4.9	6.7
77.5°	1.1	3.0	4.1	4.1	3.7
80°	1.1	3.0	3.7	3.4	3.4
82.5°	1.1	3.0	3.0	3.0	2.6
85°	1.1	2.6	3.0	2.6	2.2
87.5°	1.1	2.6	2.6	2.6	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)