

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: P1061650

Luminaire Tested: S125RDR-S375D935-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D935-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

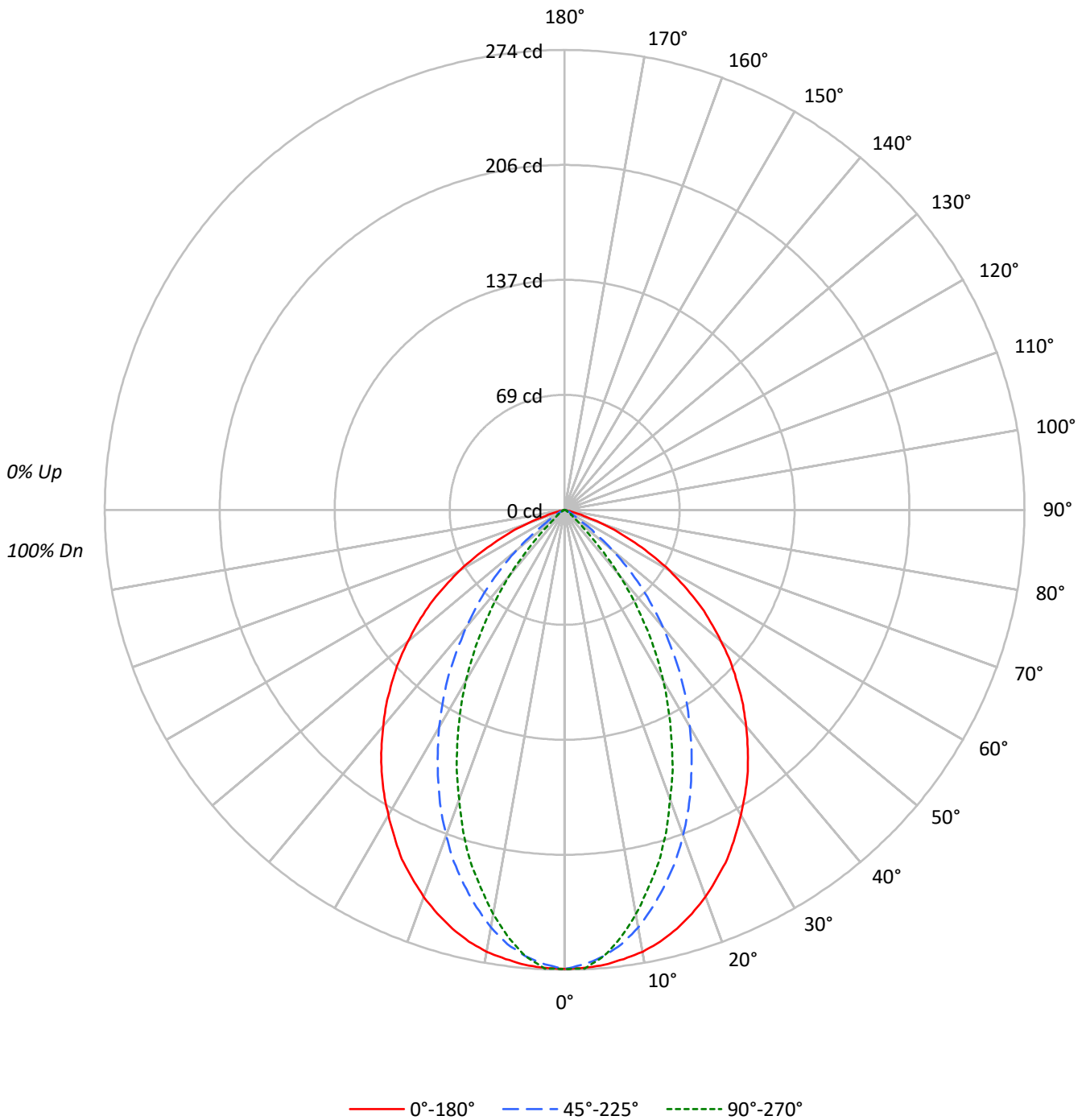
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 353.4 lumens
Efficiency: N/A
Efficacy: 28.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
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: P1061650
CATALOG NUMBER: S125RDR-S375D935-X4F0-XX-UDD-BVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1061650

CATALOG NUMBER: S125RDR-S375D935-X4F0-XX-UDD-BVL-B

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	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1883	1883	1883
5°	1881	1845	1845
10°	1870	1766	1710
15°	1842	1649	1546
20°	1798	1512	1346
25°	1744	1355	1146
30°	1670	1188	935
35°	1599	1013	701
40°	1511	817	454
45°	1416	618	197
50°	1303	394	74
55°	1174	173	52
60°	994	74	34
65°	753	47	18
70°	457	22	8
75°	96	11	11
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1416 cd/sqm



TEST NUMBER: P1061650

CATALOG NUMBER: S125RDR-S375D935-X4F0-XX-UDD-BVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.2	7.1
10°-20°	65.7	18.6
20°-30°	84.4	23.9
30°-40°	79.4	22.5
40°-50°	55.5	15.7
50°-60°	29.7	8.4
60°-70°	11.8	3.4
70°-80°	1.5	0.4
80°-90°	0.0	0.0
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°	175.3	49.6
0°-40°	254.8	72.1
0°-60°	340.0	96.2
0°-90°	353.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	353.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	274	274	274	274	274	
5°	272	271	267	268	267	26
15°	258	250	231	220	217	73
25°	230	209	178	159	151	105
35°	190	160	120	93	83	119
45°	145	109	64	31	20	112
55°	98	60	14	5	4	87
65°	46	18	3	1	1	46
75°	4	1	0	0	0	7
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1061650

CATALOG NUMBER: S125RDR-S375D935-X4F0-XX-UDD-BVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	273.5	273.5	273.5	273.5	273.5
2.5°	273.1	273.5	271.0	273.1	273.5
5°	272.1	271.3	267.0	267.7	267.0
7.5°	269.9	268.1	260.9	258.4	256.9
10°	267.4	263.4	252.6	247.2	244.6
12.5°	263.4	257.6	242.5	234.2	230.6
15°	258.4	250.1	231.3	220.5	216.9
17.5°	252.2	241.4	219.7	206.4	201.0
20°	245.4	230.9	206.4	190.5	183.7
22.5°	237.4	220.8	192.7	175.0	168.1
25°	229.5	209.3	178.3	158.8	150.8
27.5°	219.7	197.4	163.8	142.9	134.2
30°	210.0	185.5	149.4	126.7	117.6
32.5°	200.3	172.8	135.0	109.7	100.7
35°	190.2	159.8	120.5	93.1	83.4
37.5°	179.3	146.9	105.0	77.2	67.1
40°	168.1	134.2	90.9	61.7	50.5
42.5°	157.3	121.6	76.9	46.5	34.3
45°	145.4	109.0	63.5	30.7	20.2
47.5°	134.2	96.7	49.8	17.7	10.5
50°	121.6	84.1	36.8	9.4	6.9
52.5°	109.7	71.8	24.5	6.1	5.4
55°	97.8	59.9	14.4	5.1	4.3
57.5°	84.1	48.4	7.9	4.0	3.2
60°	72.2	37.9	5.4	2.9	2.5
62.5°	58.5	27.8	4.0	2.2	1.8
65°	46.2	18.4	2.9	1.4	1.1
67.5°	34.3	10.8	1.8	0.7	0.7
70°	22.7	5.8	1.1	0.4	0.4
72.5°	11.9	2.5	0.7	0.4	0.4
75°	3.6	1.1	0.4	0.4	0.4
77.5°	0.0	0.4	0.0	0.0	0.4
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)