

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: P1061626

Luminaire Tested: S125RDR-S375D850-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D850-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

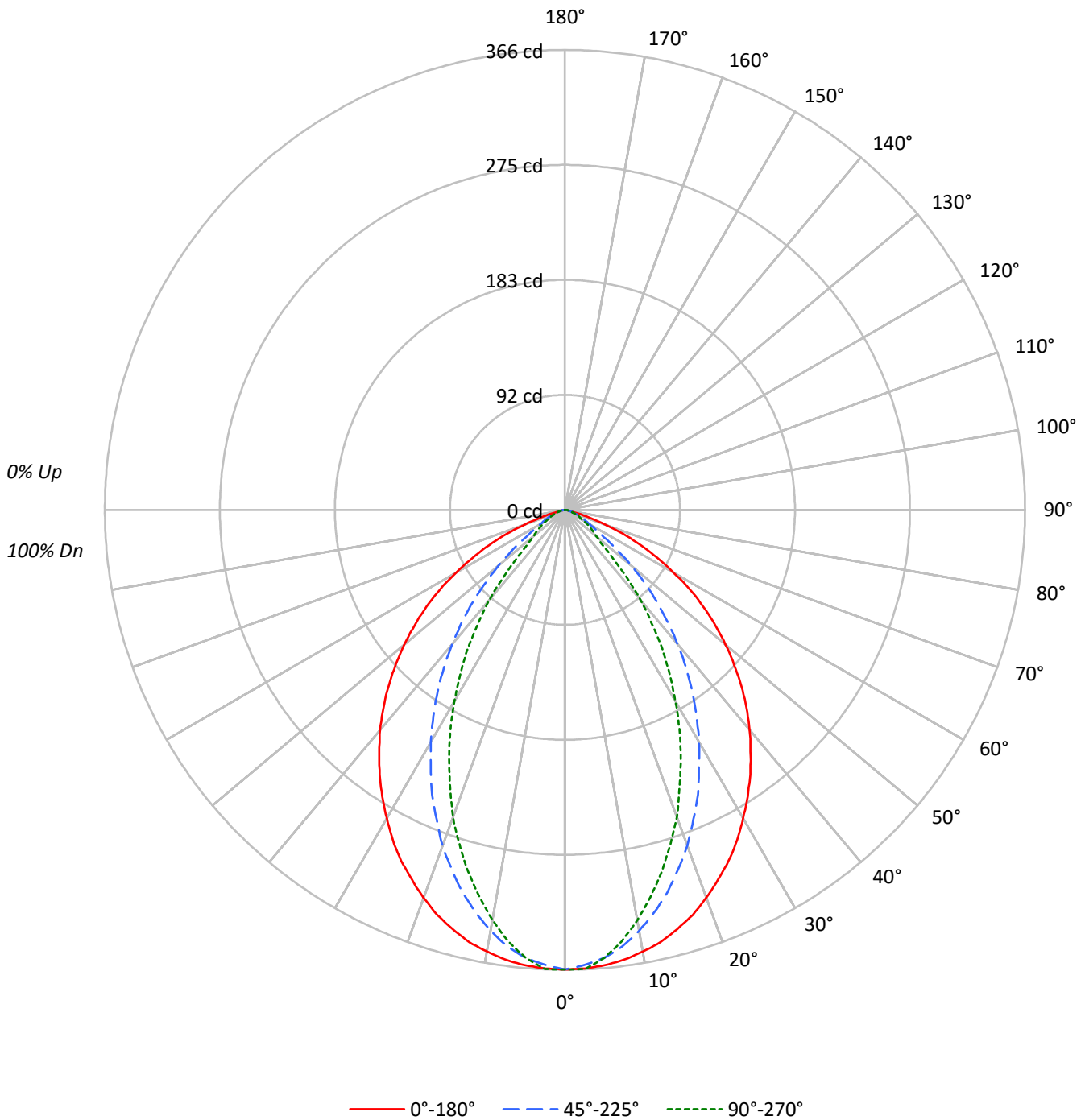
Lumens per Lamp: N/A
Luminaire Lumens: 529.0 lumens
Efficiency: N/A
Efficacy: 42.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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: P1061626

CATALOG NUMBER: S125RDR-S375D850-X4F0-XX-UDD-SVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1061626

CATALOG NUMBER: S125RDR-S375D850-X4F0-XX-UDD-SVL-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	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2519	2519	2519
5°	2515	2474	2474
10°	2496	2378	2317
15°	2461	2246	2123
20°	2408	2085	1907
25°	2341	1900	1656
30°	2254	1696	1397
35°	2160	1484	1133
40°	2056	1253	839
45°	1933	1005	507
50°	1788	737	348
55°	1612	451	290
60°	1370	307	230
65°	1083	235	182
70°	682	169	149
75°	223	122	122
80°	75	91	111
85°	39	71	71

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1933 cd/sqm



TEST NUMBER: P1061626

CATALOG NUMBER: S125RDR-S375D850-X4F0-XX-UDD-SVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.8	6.4
10°-20°	89.3	16.9
20°-30°	117.5	22.2
30°-40°	115.5	21.8
40°-50°	87.4	16.5
50°-60°	53.0	10.0
60°-70°	25.0	4.7
70°-80°	6.5	1.2
80°-90°	1.0	0.2
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°	240.7	45.5
0°-40°	356.2	67.3
0°-60°	496.5	93.9
0°-90°	529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	366	366	366	366	366	
5°	364	363	358	358	358	35
15°	345	336	315	303	298	97
25°	308	285	250	227	218	142
35°	257	223	177	146	135	160
45°	198	156	103	66	52	153
55°	134	92	38	26	24	120
65°	66	34	14	12	11	65
75°	8	6	5	5	5	13
85°	0	0	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P1061626

CATALOG NUMBER: S125RDR-S375D850-X4F0-XX-UDD-SVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	365.8	365.8	365.8	365.8	365.8
2.5°	365.3	365.3	362.5	365.8	365.8
5°	363.9	363.0	357.9	358.4	357.9
7.5°	361.1	359.3	350.5	348.1	346.3
10°	357.0	353.2	340.2	334.7	331.4
12.5°	352.3	345.8	328.1	320.2	315.1
15°	345.3	336.0	315.1	303.0	297.9
17.5°	337.9	324.4	299.8	285.4	278.9
20°	328.6	312.8	284.5	266.8	260.3
22.5°	318.4	299.8	266.8	247.3	238.4
25°	308.2	284.9	250.1	226.8	218.0
27.5°	296.5	270.0	231.0	206.8	197.1
30°	283.5	255.2	213.3	188.2	175.7
32.5°	270.5	239.8	194.7	167.3	154.8
35°	257.0	222.6	176.6	145.5	134.8
37.5°	242.6	206.4	158.0	125.5	112.9
40°	228.7	190.1	139.4	105.0	93.4
42.5°	213.8	173.8	120.8	85.1	72.0
45°	198.5	156.2	103.2	65.5	52.1
47.5°	182.7	140.4	85.5	48.3	39.0
50°	166.9	123.6	68.8	35.8	32.5
52.5°	150.6	107.4	52.1	29.7	28.4
55°	134.3	92.0	37.6	25.6	24.2
57.5°	117.6	75.3	28.4	21.8	20.5
60°	99.5	60.4	22.3	18.1	16.7
62.5°	82.7	47.4	18.1	14.9	13.9
65°	66.5	33.9	14.4	12.1	11.2
67.5°	49.7	22.8	11.2	9.3	9.3
70°	33.9	14.9	8.4	7.4	7.4
72.5°	20.5	8.8	6.0	6.0	6.0
75°	8.4	5.6	4.6	4.6	4.6
77.5°	2.8	3.3	3.3	3.7	3.7
80°	1.9	1.9	2.3	2.8	2.8
82.5°	0.9	1.4	1.4	1.9	1.9
85°	0.5	0.5	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)