

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: P1061627

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
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-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

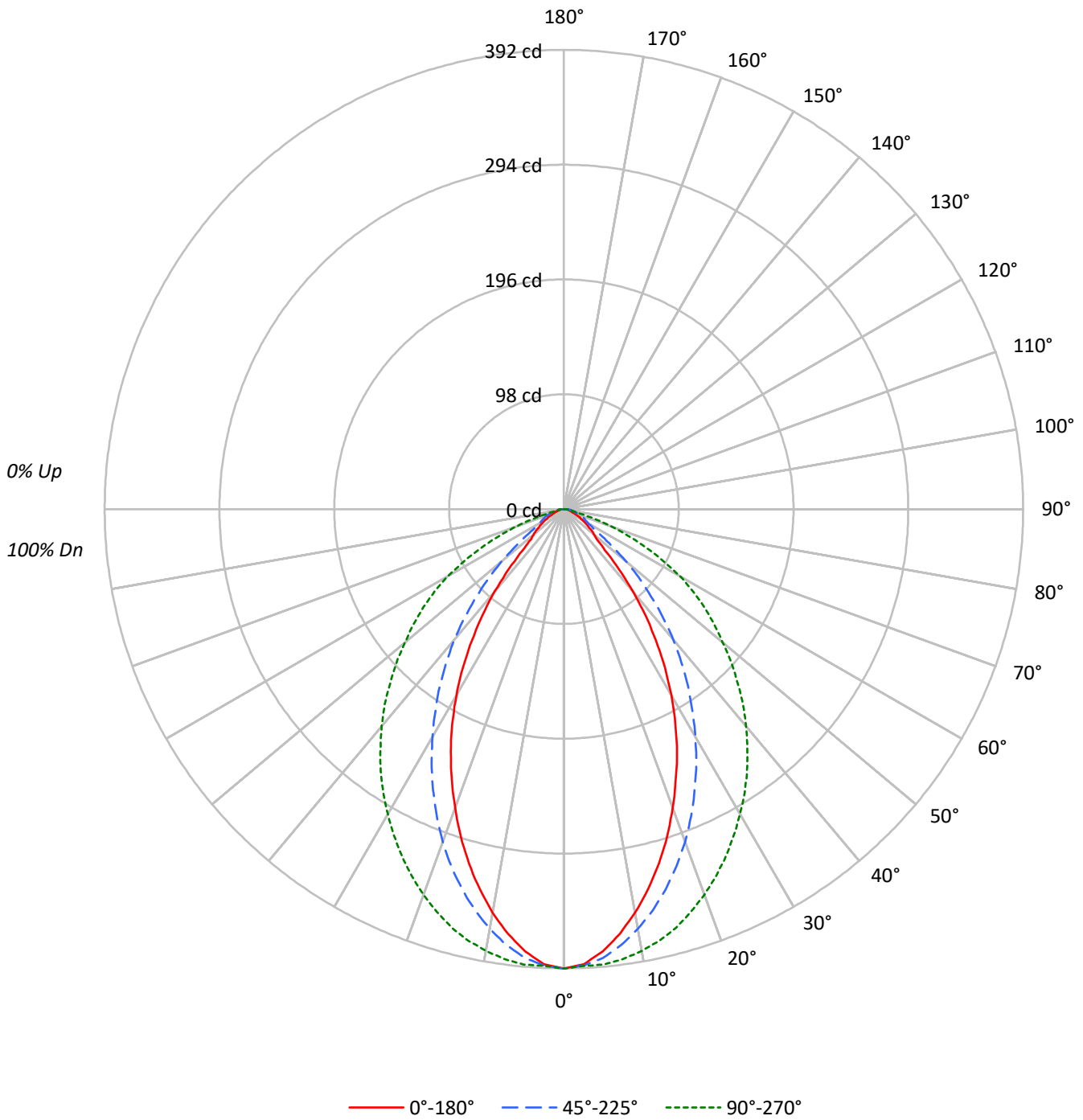
Lumens per Lamp: N/A
Luminaire Lumens: 566.2 lumens
Efficiency: N/A
Efficacy: 45.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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				100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79				79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63				63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56				56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2700	2700	2700
5°	2620	2658	2697
10°	2446	2543	2676
15°	2231	2394	2636
20°	1990	2215	2566
25°	1735	2007	2484
30°	1457	1782	2389
35°	1149	1552	2291
40°	823	1304	2174
45°	485	1023	2038
50°	359	737	1893
55°	301	447	1759
60°	244	326	1570
65°	189	311	1258
70°	159	290	852
75°	149	261	372
80°	147	258	238
85°	182	332	261

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2038 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	6.4
10°-20°	94.9	16.8
20°-30°	124.0	21.9
30°-40°	120.7	21.3
40°-50°	90.2	15.9
50°-60°	56.0	9.9
60°-70°	29.4	5.2
70°-80°	10.7	1.9
80°-90°	4.1	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°	255.1	45.1
0°-40°	375.8	66.4
0°-60°	522.0	92.2
0°-90°	566.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	566.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	392	392	392	392	392	
5°	379	384	385	387	390	35
15°	313	322	336	356	370	87
25°	228	240	264	300	327	104
35°	137	152	185	234	273	85
45°	50	65	105	164	209	42
55°	25	26	37	97	146	23
65°	12	13	19	41	77	12
75°	6	6	10	11	14	6
85°	2	4	4	4	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	392.1	392.1	392.1	392.1	392.1
2.5°	388.8	392.1	389.8	389.8	390.2
5°	379.1	384.2	384.6	387.0	390.2
7.5°	365.6	371.6	375.3	382.3	387.4
10°	349.8	356.7	363.7	375.3	382.8
12.5°	332.1	340.5	350.7	366.5	377.2
15°	313.0	322.3	335.8	356.3	369.8
17.5°	293.0	302.8	319.5	344.2	360.5
20°	271.6	282.3	302.3	330.2	350.2
22.5°	249.8	261.9	283.7	315.3	339.1
25°	228.4	240.0	264.2	300.0	327.0
27.5°	206.0	218.1	244.6	284.2	314.0
30°	183.3	196.3	224.2	267.9	300.5
32.5°	160.5	174.0	204.2	251.2	287.0
35°	136.7	151.6	184.7	234.0	272.6
37.5°	114.4	130.2	164.7	216.3	257.2
40°	91.6	107.9	145.1	199.1	241.9
42.5°	69.3	86.0	125.1	181.4	226.5
45°	49.8	65.1	105.1	164.2	209.3
47.5°	38.1	47.0	86.5	146.5	194.0
50°	33.5	36.3	68.8	129.3	176.7
52.5°	29.3	31.2	51.2	112.6	161.9
55°	25.1	26.5	37.2	96.7	146.5
57.5°	21.4	22.8	28.4	82.3	130.7
60°	17.7	19.1	23.7	67.9	114.0
62.5°	14.9	15.3	21.4	54.4	95.3
65°	11.6	12.6	19.1	40.9	77.2
67.5°	9.8	10.2	16.7	29.3	59.5
70°	7.9	8.4	14.4	20.5	42.3
72.5°	7.0	7.0	12.1	14.9	27.0
75°	5.6	6.5	9.8	10.7	14.0
77.5°	4.7	6.5	8.4	7.9	7.4
80°	3.7	6.0	6.5	6.5	6.0
82.5°	3.3	5.1	5.6	5.1	4.7
85°	2.3	4.2	4.2	4.2	3.3
87.5°	1.9	3.7	3.3	3.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)