

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: P1061664

Luminaire Tested: S125RDR-S375D940-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S375D940-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

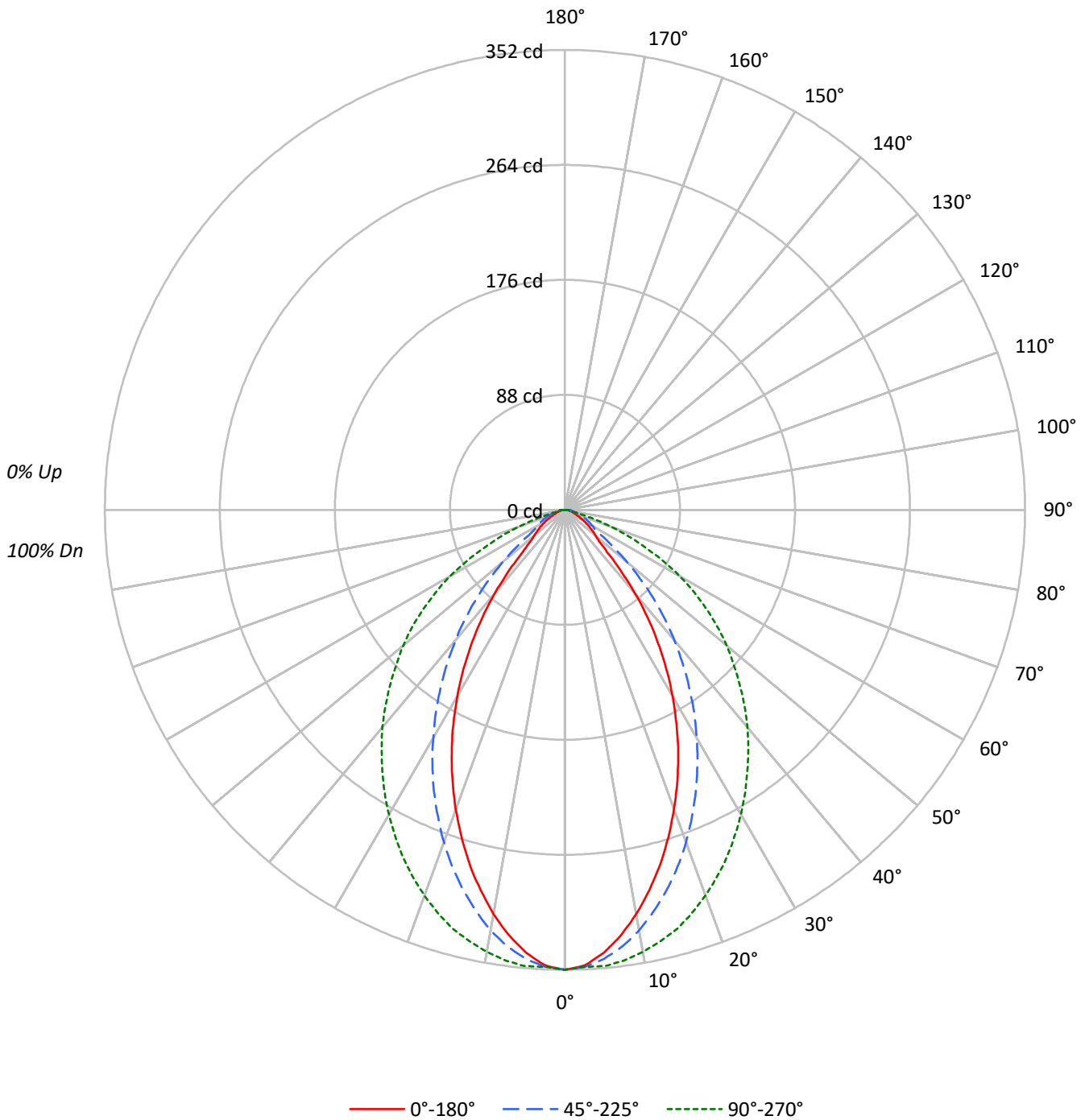
Lumens per Lamp: N/A
Luminaire Lumens: 509.8 lumens
Efficiency: N/A
Efficacy: 40.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	96	88	81	76	94	86	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	62				62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	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	40	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2424	2424	2424
5°	2353	2384	2422
10°	2197	2286	2401
15°	2005	2146	2365
20°	1787	1984	2302
25°	1557	1801	2228
30°	1309	1603	2141
35°	1041	1393	2047
40°	750	1170	1953
45°	444	929	1839
50°	329	661	1731
55°	278	408	1585
60°	227	329	1396
65°	176	305	1103
70°	151	264	739
75°	138	229	298
80°	147	238	206
85°	174	355	237

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1839 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.4	6.4
10°-20°	85.2	16.7
20°-30°	111.4	21.8
30°-40°	108.5	21.3
40°-50°	81.4	16.0
50°-60°	51.0	10.0
60°-70°	26.6	5.2
70°-80°	9.6	1.9
80°-90°	3.8	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°	229.0	44.9
0°-40°	337.5	66.2
0°-60°	469.9	92.2
0°-90°	509.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	509.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	352	352	352	352	352	
5°	340	345	345	348	350	32
15°	281	290	301	320	332	78
25°	205	216	237	269	293	94
35°	124	137	166	210	244	77
45°	46	59	95	147	189	38
55°	23	24	34	89	132	21
65°	11	12	19	36	68	11
75°	5	7	9	9	11	6
85°	2	4	4	4	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	352.0	352.0	352.0	352.0	352.0
2.5°	349.0	352.3	350.1	350.1	350.1
5°	340.4	344.9	344.9	347.5	350.5
7.5°	328.4	333.6	337.0	343.4	347.9
10°	314.2	320.6	326.9	337.4	343.4
12.5°	298.1	305.6	314.6	329.2	338.1
15°	281.3	289.5	301.1	319.8	331.8
17.5°	263.0	272.7	286.5	309.0	323.5
20°	243.9	253.6	270.8	296.2	314.2
22.5°	224.8	235.3	254.0	282.8	304.1
25°	205.0	216.2	237.1	269.3	293.3
27.5°	184.8	196.4	219.6	255.5	281.3
30°	164.6	176.5	201.6	240.5	269.3
32.5°	144.4	157.1	183.7	225.2	256.6
35°	123.8	136.9	165.7	209.8	243.5
37.5°	104.0	117.1	147.7	194.1	230.4
40°	83.4	97.6	130.2	178.4	217.3
42.5°	63.2	77.8	112.6	162.7	203.1
45°	45.6	59.1	95.4	147.4	188.9
47.5°	35.2	42.6	77.8	131.7	175.1
50°	30.7	32.9	61.7	117.1	161.6
52.5°	26.6	28.1	46.4	103.6	147.0
55°	23.2	24.3	34.0	89.0	132.0
57.5°	19.5	20.9	26.9	74.8	116.7
60°	16.5	17.2	23.9	61.7	101.4
62.5°	13.5	14.2	21.3	48.6	84.2
65°	10.8	11.6	18.7	35.9	67.7
67.5°	9.0	9.4	15.7	25.4	52.0
70°	7.5	7.9	13.1	17.6	36.7
72.5°	6.4	7.5	10.5	12.7	23.2
75°	5.2	7.1	8.6	9.0	11.2
77.5°	4.5	6.7	7.1	7.1	6.4
80°	3.7	5.6	6.0	5.6	5.2
82.5°	3.0	4.5	4.9	4.9	4.1
85°	2.2	3.7	4.5	4.1	3.0
87.5°	1.5	3.4	3.7	3.4	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)