

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: P1061672

Luminaire Tested: S125RDR-S375D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061672
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-S375D950-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, 90 CRI LEDS
Ballast/Driver: -

Summary

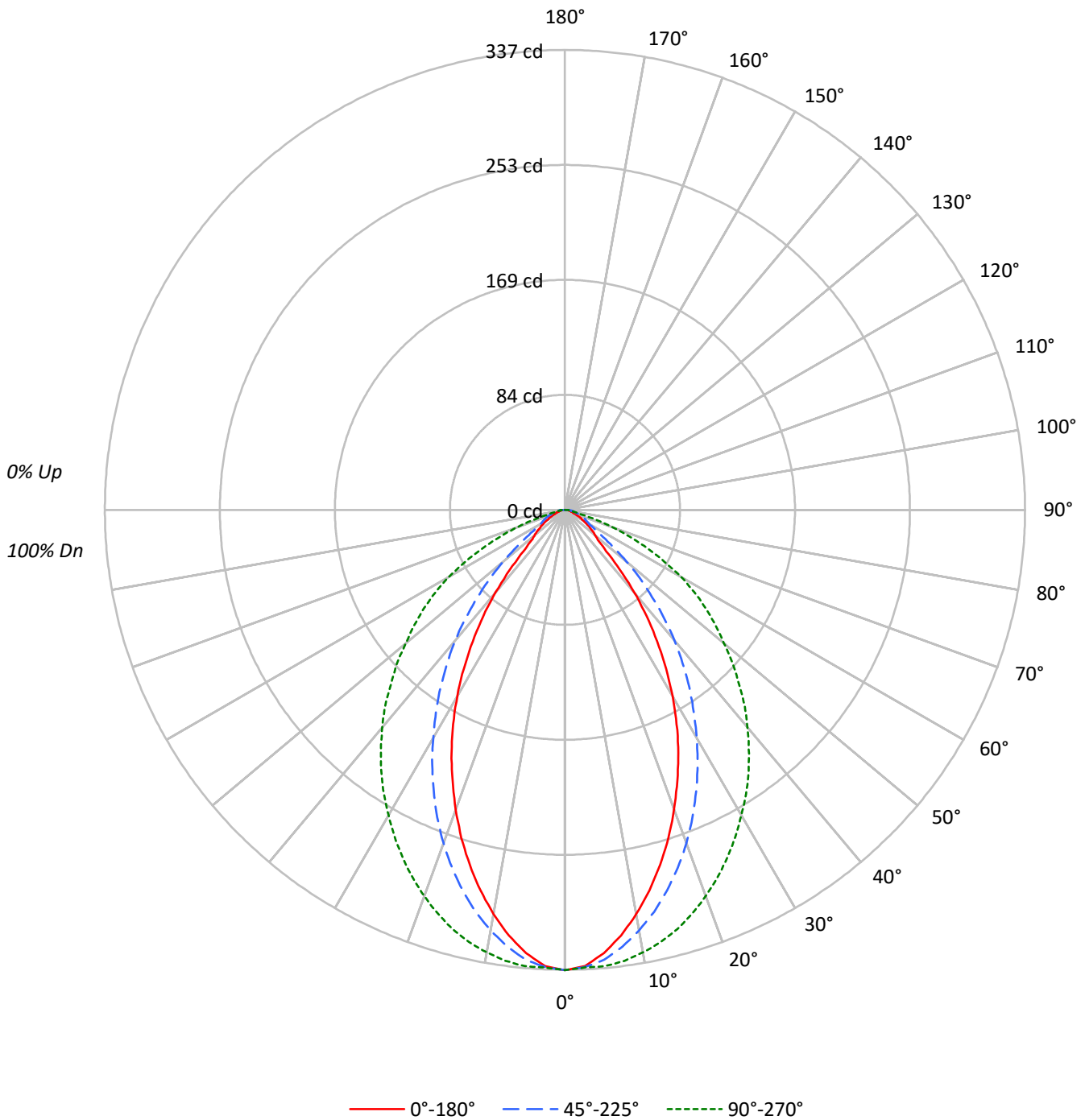
Lumens per Lamp: N/A
Luminaire Lumens: 487.0 lumens
Efficiency: N/A
Efficacy: 39.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	2322	2322	2322
5°	2254	2287	2320
10°	2104	2188	2302
15°	1920	2059	2267
20°	1712	1906	2208
25°	1493	1727	2137
30°	1253	1534	2055
35°	988	1335	1971
40°	708	1122	1870
45°	417	880	1753
50°	308	634	1628
55°	259	384	1513
60°	209	281	1350
65°	163	267	1082
70°	137	250	733
75°	128	223	319
80°	127	222	206
85°	158	284	221

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1753 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.1	6.4
10°-20°	81.7	16.8
20°-30°	106.7	21.9
30°-40°	103.9	21.3
40°-50°	77.6	15.9
50°-60°	48.1	9.9
60°-70°	25.3	5.2
70°-80°	9.2	1.9
80°-90°	3.5	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°	219.4	45.1
0°-40°	323.3	66.4
0°-60°	449.0	92.2
0°-90°	487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	337	337	337	337	337	
5°	326	330	331	333	336	30
15°	269	277	289	306	318	75
25°	196	206	227	258	281	90
35°	118	130	159	201	234	73
45°	43	56	90	141	180	36
55°	22	23	32	83	126	19
65°	10	11	16	35	66	10
75°	5	6	8	9	12	5
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°	337.3	337.3	337.3	337.3	337.3
2.5°	334.5	337.3	335.3	335.3	335.7
5°	326.1	330.5	330.9	332.9	335.7
7.5°	314.5	319.7	322.9	328.9	333.3
10°	300.9	306.9	312.9	322.9	329.3
12.5°	285.7	292.9	301.7	315.3	324.5
15°	269.3	277.3	288.9	306.5	318.1
17.5°	252.1	260.5	274.9	296.1	310.1
20°	233.7	242.9	260.1	284.1	301.3
22.5°	214.9	225.3	244.1	271.3	291.7
25°	196.5	206.5	227.3	258.1	281.3
27.5°	177.2	187.7	210.5	244.5	270.1
30°	157.6	168.8	192.9	230.5	258.5
32.5°	138.0	149.6	175.6	216.1	246.9
35°	117.6	130.4	158.8	201.3	234.5
37.5°	98.4	112.0	141.6	186.0	221.3
40°	78.8	92.8	124.8	171.2	208.1
42.5°	59.6	74.0	107.6	156.0	194.9
45°	42.8	56.0	90.4	141.2	180.0
47.5°	32.8	40.4	74.4	126.0	166.8
50°	28.8	31.2	59.2	111.2	152.0
52.5°	25.2	26.8	44.0	96.8	139.2
55°	21.6	22.8	32.0	83.2	126.0
57.5°	18.4	19.6	24.4	70.8	112.4
60°	15.2	16.4	20.4	58.4	98.0
62.5°	12.8	13.2	18.4	46.8	82.0
65°	10.0	10.8	16.4	35.2	66.4
67.5°	8.4	8.8	14.4	25.2	51.2
70°	6.8	7.2	12.4	17.6	36.4
72.5°	6.0	6.0	10.4	12.8	23.2
75°	4.8	5.6	8.4	9.2	12.0
77.5°	4.0	5.6	7.2	6.8	6.4
80°	3.2	5.2	5.6	5.6	5.2
82.5°	2.8	4.4	4.8	4.4	4.0
85°	2.0	3.6	3.6	3.6	2.8
87.5°	1.6	3.2	2.8	2.8	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)