

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: P1058105

Luminaire Tested: S122RDR-S675D950-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-60)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D950-X4F0-XX-UDD-BVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

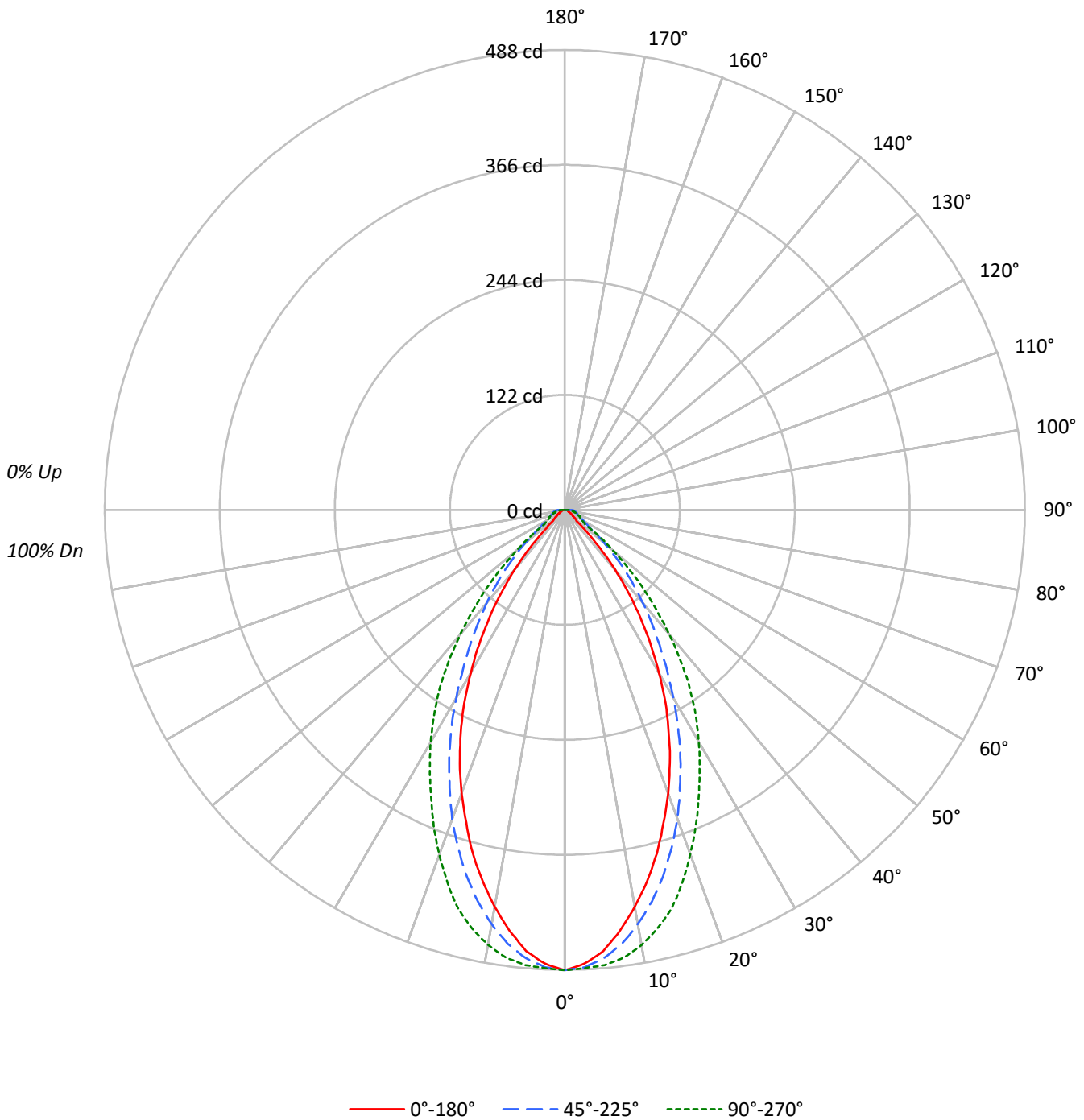
Lumens per Lamp: N/A
Luminaire Lumens: 526.6 lumens
Efficiency: N/A
Efficacy: 20.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.95 / 0.9
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90				90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81				81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74				74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67				67
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61				61
6	82	72	65	60	80	71	64	59	69	63	59	68	63	59	66	62	58	57				57
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52				52
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48				48
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45				45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42				42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9014	9014	9014
5°	8702	8841	8980
10°	8014	8364	8786
15°	7206	7687	8367
20°	6286	6855	7645
25°	5316	5906	6841
30°	4246	4905	6062
35°	3140	3942	5208
40°	1985	3088	4148
45°	780	2320	3053
50°	402	1559	1880
55°	331	1023	843
60°	244	830	760
65°	205	777	777
70°	200	809	755
75°	264	934	799
80°	393	1190	893
85°	593	1990	1186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 87.5°
 Luminance: 3977 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	8.5
10°-20°	112.9	21.4
20°-30°	134.1	25.5
30°-40°	111.6	21.2
40°-50°	62.3	11.8
50°-60°	25.2	4.8
60°-70°	16.1	3.1
70°-80°	12.1	2.3
80°-90°	7.7	1.5
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°	291.7	55.4
0°-40°	403.2	76.6
0°-60°	490.7	93.2
0°-90°	526.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	526.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	488	488	488	488	488	
5°	470	478	477	481	485	43
15°	377	388	402	423	438	105
25°	261	271	290	313	336	119
35°	139	152	175	204	231	87
45°	30	50	89	104	117	28
55°	10	22	32	31	26	9
65°	5	19	18	17	18	5
75°	4	13	13	12	11	4
85°	3	8	9	8	6	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	488.5	488.5	488.5	488.5	488.5
2.5°	482.0	489.5	485.7	485.7	486.7
5°	469.8	478.2	477.3	481.0	484.8
7.5°	450.2	459.5	464.2	472.6	479.2
10°	427.7	438.0	446.4	459.5	468.9
12.5°	403.4	413.7	425.8	442.7	454.8
15°	377.2	388.4	402.4	423.0	438.0
17.5°	348.1	360.3	376.2	398.7	414.6
20°	320.1	332.2	349.1	371.5	389.3
22.5°	291.1	301.4	319.1	341.6	363.1
25°	261.1	271.4	290.1	312.6	336.0
27.5°	231.2	241.5	260.2	283.6	309.8
30°	199.3	210.6	230.2	256.4	284.5
32.5°	169.4	180.6	201.2	230.2	258.3
35°	139.4	152.5	175.0	204.0	231.2
37.5°	110.4	125.4	150.7	177.8	202.1
40°	82.4	98.3	128.2	151.6	172.2
42.5°	54.3	73.0	107.6	127.3	143.2
45°	29.9	50.5	88.9	103.9	117.0
47.5°	16.8	32.8	70.2	82.4	89.8
50°	14.0	24.3	54.3	62.7	65.5
52.5°	11.2	22.5	41.2	45.9	44.0
55°	10.3	21.5	31.8	30.9	26.2
57.5°	8.4	21.5	25.3	22.5	22.5
60°	6.6	20.6	22.5	19.7	20.6
62.5°	5.6	19.7	20.6	18.7	18.7
65°	4.7	18.7	17.8	16.8	17.8
67.5°	3.7	16.8	16.8	15.9	15.9
70°	3.7	15.9	15.0	14.0	14.0
72.5°	3.7	14.0	14.0	13.1	13.1
75°	3.7	13.1	13.1	12.2	11.2
77.5°	3.7	11.2	12.2	11.2	10.3
80°	3.7	10.3	11.2	10.3	8.4
82.5°	3.7	9.4	10.3	9.4	7.5
85°	2.8	8.4	9.4	8.4	5.6
87.5°	2.8	8.4	9.4	7.5	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)