

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: P1058110

Luminaire Tested: S122RDR-S675D950-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-19)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D950-X4F0-XX-UDD-WVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

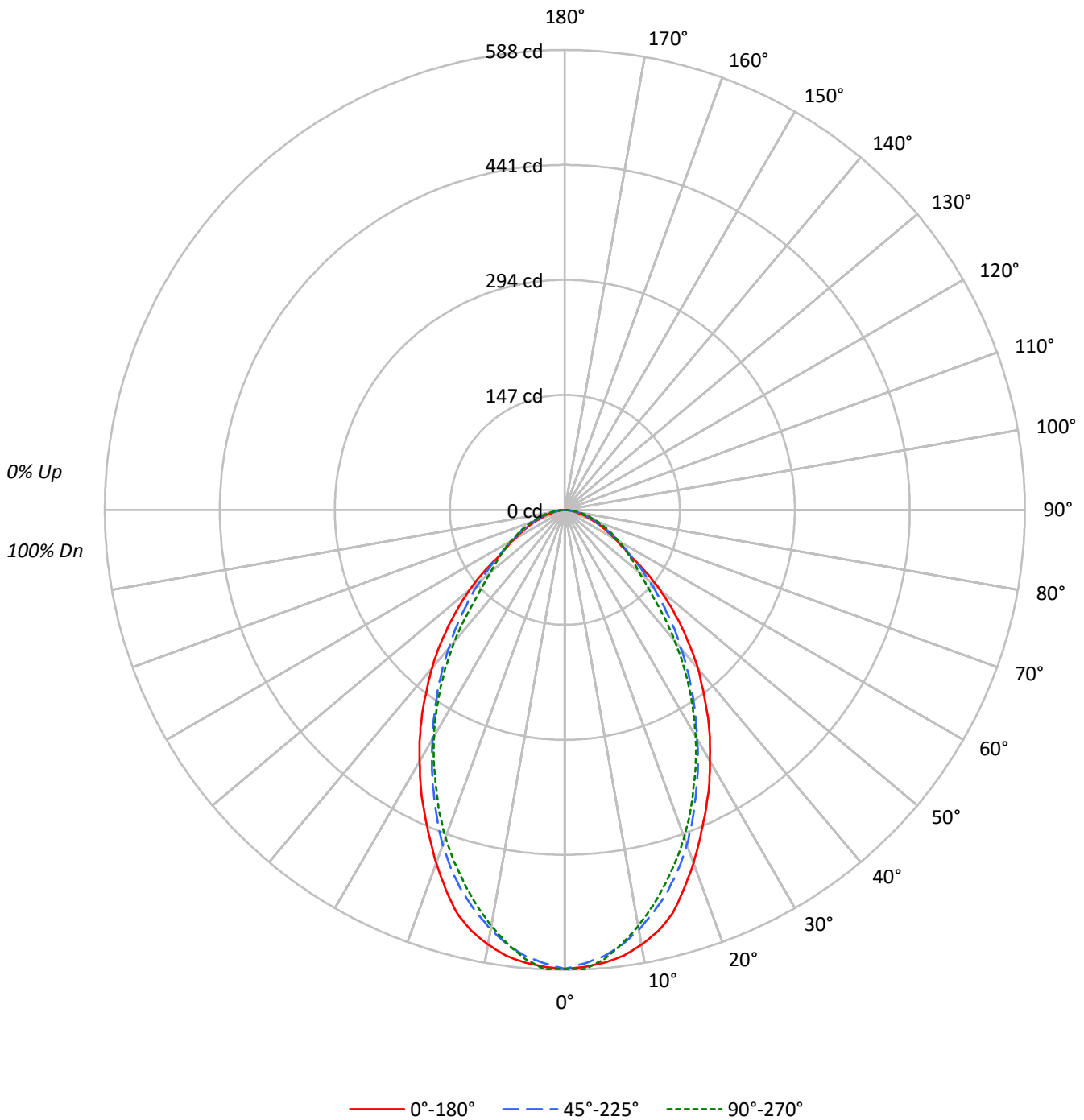
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 891.3 lumens
Efficiency: N/A
Efficacy: 34.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 0.92 / 1.02
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41
9	64	52	45	40	63	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10830	10830	10830
5°	10767	10612	10680
10°	10577	10208	10122
15°	10194	9659	9462
20°	9433	8956	8754
25°	8657	8087	7934
30°	7905	7208	7129
35°	7159	6379	6231
40°	6371	5560	5268
45°	5488	4781	4220
50°	4533	4025	3542
55°	3278	3336	3188
60°	2724	2864	2897
65°	2327	2489	2650
70°	1915	2217	2422
75°	1597	1868	2196
80°	1190	1488	1987
85°	402	783	1778

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5488 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	6.1
10°-20°	142.9	16.0
20°-30°	184.9	20.7
30°-40°	181.3	20.3
40°-50°	142.8	16.0
50°-60°	93.6	10.5
60°-70°	57.0	6.4
70°-80°	28.5	3.2
80°-90°	6.1	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°	382.0	42.9
0°-40°	563.4	63.2
0°-60°	799.8	89.7
0°-90°	891.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	891.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	587	587	587	587	587	
5°	581	581	573	577	577	55
15°	534	526	506	499	495	149
25°	425	411	397	395	390	196
35°	318	300	283	282	277	198
45°	210	197	183	170	162	162
55°	102	108	104	100	99	97
65°	53	54	57	60	61	53
75°	22	23	26	30	31	24
85°	2	3	4	6	8	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	586.9	586.9	586.9	586.9	586.9
2.5°	585.0	586.0	580.4	586.0	587.8
5°	581.3	581.3	572.9	576.6	576.6
7.5°	574.8	573.8	560.7	560.7	559.8
10°	564.5	560.7	544.8	542.0	540.2
12.5°	551.4	544.8	526.2	521.5	518.7
15°	533.6	526.2	505.6	499.1	495.3
17.5°	507.5	500.0	482.2	474.8	471.0
20°	480.4	469.2	456.1	449.5	445.8
22.5°	452.3	439.2	427.1	422.4	418.7
25°	425.2	411.2	397.2	395.3	389.7
27.5°	399.1	382.2	368.2	367.3	362.6
30°	371.0	353.3	338.3	339.2	334.6
32.5°	344.9	328.0	310.3	311.2	305.6
35°	317.8	300.0	283.2	282.2	276.6
37.5°	289.7	272.9	257.0	253.3	247.7
40°	264.5	247.7	230.8	224.3	218.7
42.5°	237.4	222.4	207.5	197.2	189.7
45°	210.3	197.2	183.2	170.1	161.7
47.5°	184.1	173.8	161.7	145.8	140.2
50°	157.9	150.5	140.2	126.2	123.4
52.5°	130.8	128.0	121.5	112.1	111.2
55°	101.9	107.5	103.7	100.0	99.1
57.5°	86.0	86.9	89.7	88.8	88.8
60°	73.8	73.8	77.6	78.5	78.5
62.5°	62.6	63.6	67.3	69.2	69.2
65°	53.3	54.2	57.0	59.8	60.7
67.5°	43.9	45.8	48.6	51.4	52.3
70°	35.5	37.4	41.1	43.9	44.9
72.5°	29.0	29.9	33.6	36.4	37.4
75°	22.4	23.4	26.2	29.9	30.8
77.5°	15.9	17.8	20.6	23.4	25.2
80°	11.2	12.1	14.0	17.8	18.7
82.5°	6.5	7.5	9.3	12.1	13.1
85°	1.9	2.8	3.7	6.5	8.4
87.5°	0.0	0.0	0.0	1.9	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)