

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: P1057869

Luminaire Tested: S122RDR-S1005D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1057869  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-55 )  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S1005D950-X4F0-XX-UDD-WVL-W  
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

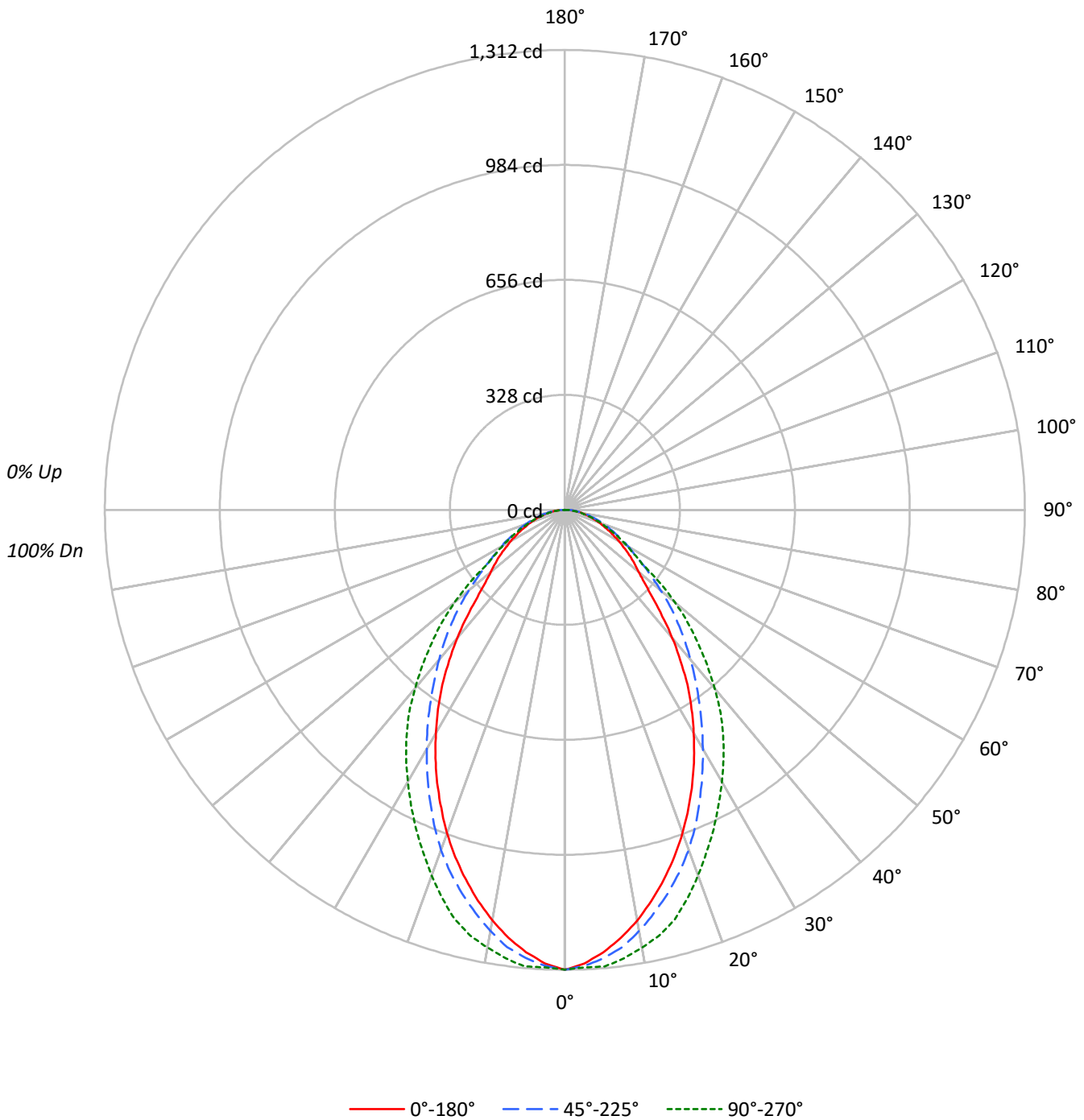
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2138.6 lumens  
Efficiency: N/A  
Efficacy: 51.2 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.8  
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	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	68	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59
5	81	70	62	56	80	69	62	56	67	60	55	65	59	55	63	58	54	52
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	40	35	58	46	40	35	46	39	35	45	39	35	44	38	34	33

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	24206	24206	24206
5°	23463	23776	24221
10°	22280	22861	23761
15°	20857	21638	23121
20°	19277	20275	21799
25°	17518	18552	20448
30°	15659	16771	19085
35°	13728	15030	17730
40°	11485	13422	16004
45°	9201	11889	13987
50°	7897	10246	11744
55°	7216	8712	8667
60°	6558	7706	7547
65°	5973	6899	6589
70°	5481	6318	5859
75°	5126	5832	5126
80°	4792	5398	4495
85°	4785	5674	3874

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 13987 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.1	5.7
10°-20°	320.6	15.0
20°-30°	422.9	19.8
30°-40°	425.8	19.9
40°-50°	346.6	16.2
50°-60°	236.3	11.0
60°-70°	153.4	7.2
70°-80°	84.4	3.9
80°-90°	27.5	1.3
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°	864.6	40.4
0°-40°	1290.4	60.3
0°-60°	1873.2	87.6
0°-90°	2138.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2138.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1267	1291	1284	1295	1308	119
15°	1092	1120	1133	1179	1210	306
25°	860	889	911	952	1004	395
35°	609	640	667	725	787	378
45°	353	396	456	495	536	278
55°	224	247	271	272	269	201
65°	137	162	158	150	151	136
75°	72	89	82	73	72	76
85°	23	30	27	21	18	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1311.8	1311.8	1311.8	1311.8	1311.8
2.5°	1294.9	1316.0	1301.9	1303.3	1306.2
5°	1266.7	1290.7	1283.6	1294.9	1307.6
7.5°	1231.4	1255.4	1258.2	1275.1	1290.7
10°	1189.1	1215.9	1220.1	1245.5	1268.1
12.5°	1142.5	1172.2	1177.8	1214.5	1244.1
15°	1091.8	1120.0	1132.7	1179.2	1210.3
17.5°	1038.2	1065.0	1084.7	1127.0	1162.3
20°	981.7	1007.1	1032.5	1070.6	1110.1
22.5°	921.1	949.3	973.3	1011.4	1056.5
25°	860.4	888.6	911.2	952.1	1004.3
27.5°	798.4	826.6	849.2	892.9	949.3
30°	734.9	764.5	787.1	836.5	895.7
32.5°	672.8	702.5	727.8	780.0	842.1
35°	609.4	640.4	667.2	725.0	787.1
37.5°	541.7	576.9	610.8	668.6	729.3
40°	476.8	516.3	557.2	610.8	664.4
42.5°	411.9	455.6	506.4	551.5	600.9
45°	352.6	396.4	455.6	495.1	536.0
47.5°	306.1	342.8	406.2	438.7	475.4
50°	275.1	300.4	356.9	382.3	409.1
52.5°	249.7	270.8	310.3	327.2	341.4
55°	224.3	246.8	270.8	272.2	269.4
57.5°	198.9	224.3	237.0	227.1	232.7
60°	177.7	203.1	208.8	198.9	204.5
62.5°	155.2	183.4	183.4	173.5	176.3
65°	136.8	162.2	158.0	149.5	150.9
67.5°	118.5	143.9	136.8	128.4	128.4
70°	101.6	125.5	117.1	108.6	108.6
72.5°	86.0	105.8	100.1	90.3	88.9
75°	71.9	88.9	81.8	73.3	71.9
77.5°	57.8	71.9	66.3	59.2	56.4
80°	45.1	57.8	50.8	45.1	42.3
82.5°	33.9	43.7	38.1	32.4	29.6
85°	22.6	29.6	26.8	21.2	18.3
87.5°	11.3	19.7	16.9	14.1	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)