

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: P1055156

Luminaire Tested: S122R3DR-S1005D927-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122R3DR-S1005D927-X4F0-XX-UDD-FLL-S
Description: DEFINE 2, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

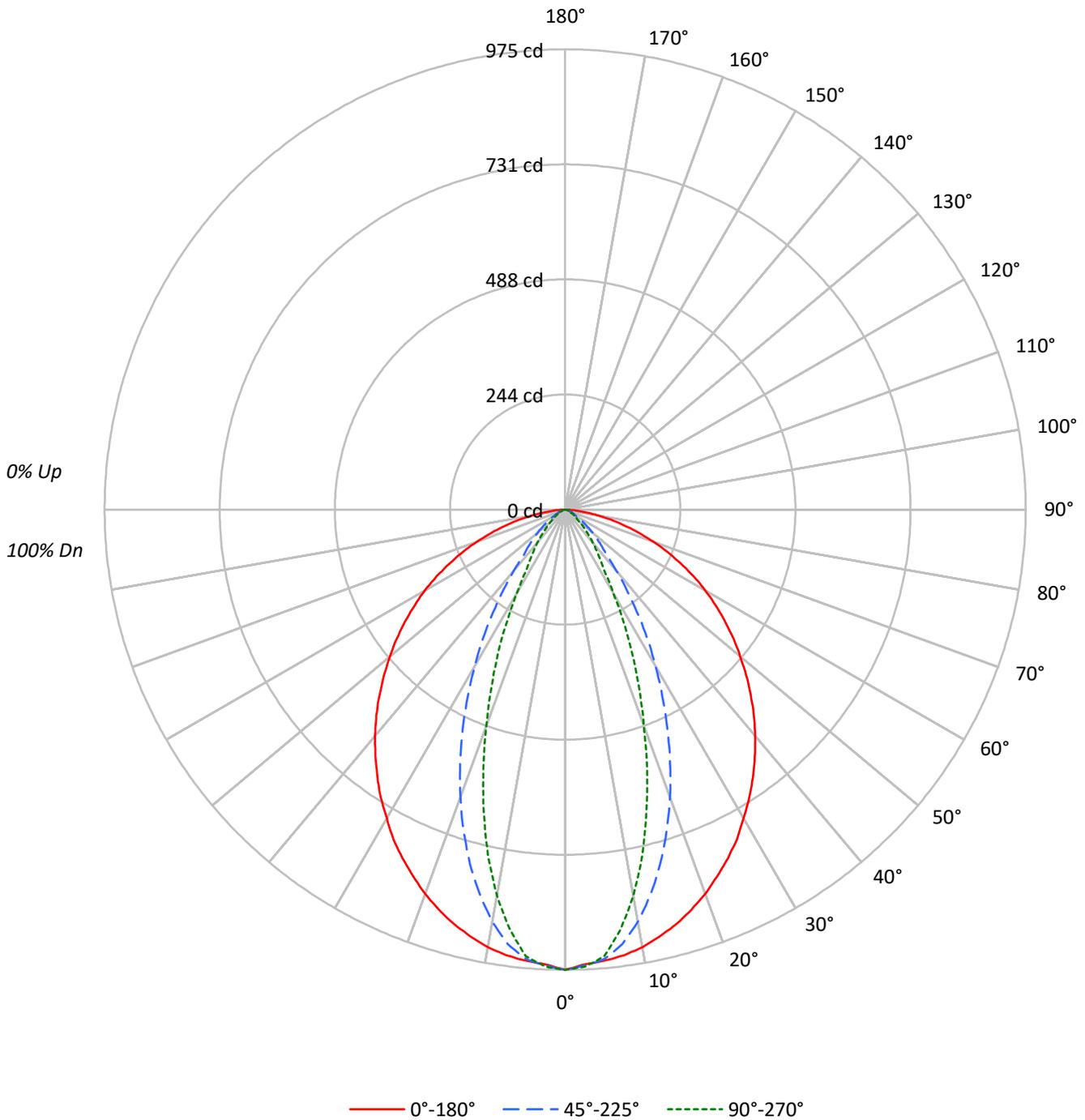
Lumens per Lamp: N/A
Luminaire Lumens: 1117.3 lumens
Efficiency: N/A
Efficacy: 26.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.64 / 0.81
Luminous Opening: Rectangular (W 0.15' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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				
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90				
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71				
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58				
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53				
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49				
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45				
9	67	56	49	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18470	18470	18470
5°	18246	18178	18064
10°	18111	17055	15973
15°	17833	15256	13030
20°	17464	13079	9827
25°	17033	10714	7018
30°	16519	8363	4469
35°	16026	6134	2984
40°	15482	4138	2246
45°	14884	2912	1600
50°	14263	2219	1126
55°	13655	1539	829
60°	12993	1042	678
65°	12050	749	533
70°	10985	598	465
75°	9531	527	351
80°	7561	393	393
85°	4152	522	261

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14884 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	8.0
10°-20°	218.8	19.6
20°-30°	249.9	22.4
30°-40°	211.9	19.0
40°-50°	158.1	14.2
50°-60°	102.2	9.1
60°-70°	57.0	5.1
70°-80°	25.0	2.2
80°-90°	5.2	0.5
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°	557.8	49.9
0°-40°	769.7	68.9
0°-60°	1030.1	92.2
0°-90°	1117.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1117.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	975	975	975	975	975	
5°	959	971	956	946	950	91
15°	909	886	778	695	664	256
25°	815	719	512	375	336	375
35°	693	522	265	145	129	433
45°	556	330	109	70	60	429
55°	413	156	47	29	25	370
65°	269	57	17	13	12	267
75°	130	12	7	6	5	139
85°	19	1	2	1	1	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	974.9	974.9	974.9	974.9	974.9
2.5°	964.1	978.5	966.5	966.5	968.9
5°	959.4	971.3	955.8	946.2	949.8
7.5°	952.2	960.6	928.3	899.6	897.2
10°	941.4	945.0	886.5	842.3	830.3
12.5°	925.9	917.6	835.1	773.0	752.7
15°	909.2	886.5	777.8	695.3	664.3
17.5°	888.9	848.3	714.4	614.1	575.9
20°	866.2	808.8	648.7	529.3	487.4
22.5°	841.1	764.6	580.6	449.2	407.4
25°	814.8	719.2	512.5	375.1	335.7
27.5°	787.3	671.4	445.6	308.2	265.2
30°	755.1	622.5	382.3	243.7	204.3
32.5°	725.2	571.1	323.8	188.8	155.3
35°	692.9	522.1	265.2	144.6	129.0
37.5°	659.5	473.1	213.9	121.9	108.7
40°	626.0	424.1	167.3	102.7	90.8
42.5°	591.4	376.3	129.0	86.0	74.1
45°	555.5	329.7	108.7	70.5	59.7
47.5°	519.7	283.2	90.8	56.2	47.8
50°	483.9	238.9	75.3	44.2	38.2
52.5°	449.2	197.1	59.7	35.8	31.1
55°	413.4	156.5	46.6	28.7	25.1
57.5°	377.5	121.9	35.8	23.9	21.5
60°	342.9	92.0	27.5	19.1	17.9
62.5°	307.0	74.1	21.5	15.5	14.3
65°	268.8	57.3	16.7	13.1	11.9
67.5°	234.2	41.8	13.1	10.8	9.6
70°	198.3	28.7	10.8	9.6	8.4
72.5°	163.7	17.9	8.4	7.2	7.2
75°	130.2	11.9	7.2	6.0	4.8
77.5°	99.2	7.2	4.8	4.8	3.6
80°	69.3	4.8	3.6	3.6	3.6
82.5°	43.0	3.6	2.4	2.4	2.4
85°	19.1	1.2	2.4	1.2	1.2
87.5°	3.6	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)