

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: P1055168

Luminaire Tested: S122R3DR-S1005D950-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055168
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-S1005D950-X4F0-XX-UDD-FLL-S
Description: DEFINE 2, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

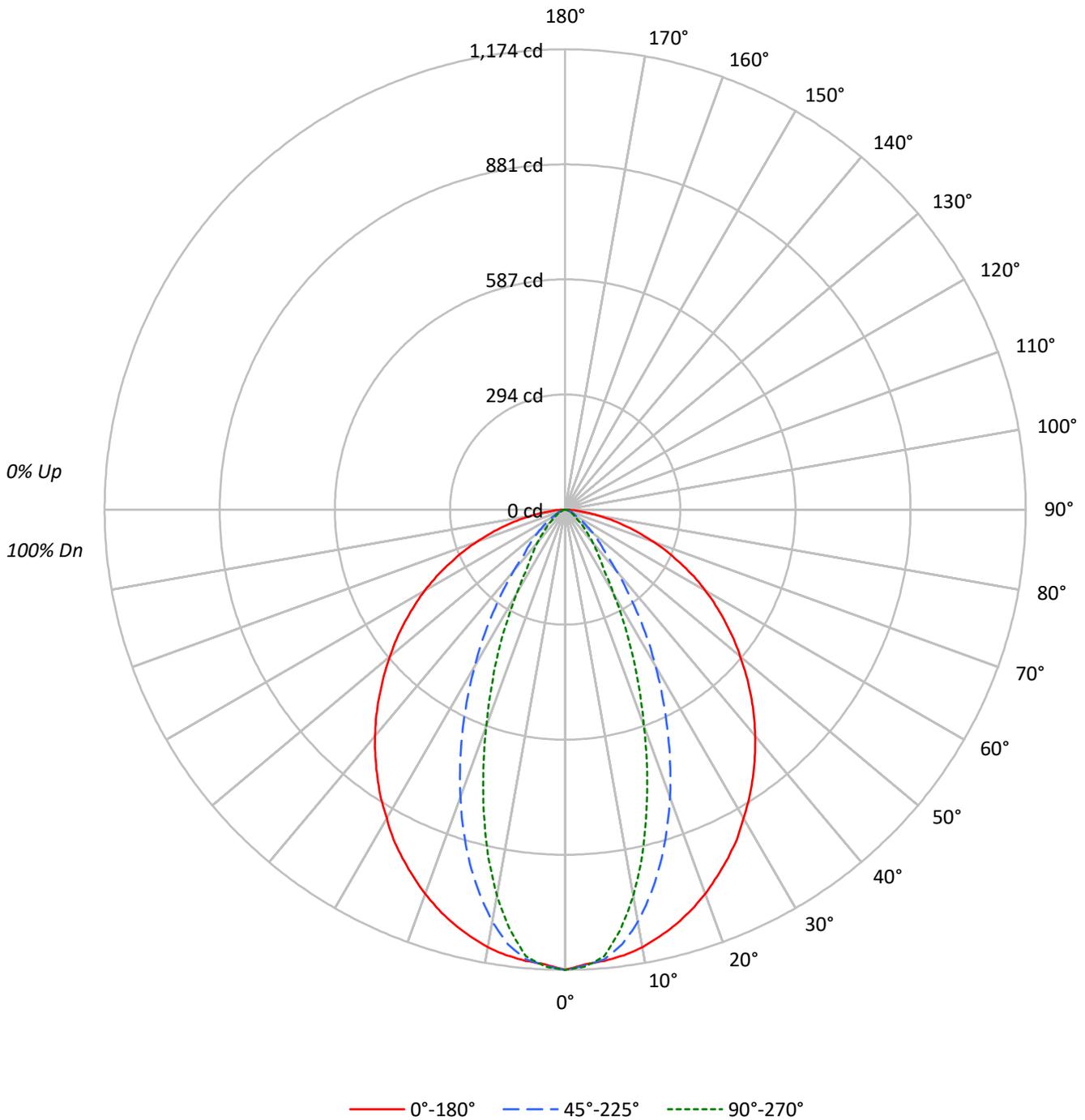
Lumens per Lamp: N/A
Luminaire Lumens: 1345.5 lumens
Efficiency: N/A
Efficacy: 32.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.64 / 0.81
Luminous Opening: Rectangular (W 0.15' x L: 3.9' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22242	22242	22242
5°	21972	21890	21753
10°	21812	20539	19238
15°	21476	18371	15691
20°	21031	15752	11835
25°	20511	12902	8452
30°	19893	10072	5382
35°	19301	7387	3594
40°	18645	4981	2703
45°	17925	3507	1926
50°	17175	2670	1356
55°	16443	1853	998
60°	15645	1254	818
65°	14511	901	646
70°	13228	715	559
75°	11478	630	425
80°	9099	469	469
85°	5000	630	304

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17925 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	8.0
10°-20°	263.5	19.6
20°-30°	301.0	22.4
30°-40°	255.2	19.0
40°-50°	190.4	14.2
50°-60°	123.1	9.1
60°-70°	68.6	5.1
70°-80°	30.1	2.2
80°-90°	6.2	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°	671.8	49.9
0°-40°	927.0	68.9
0°-60°	1240.5	92.2
0°-90°	1345.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1345.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1155	1170	1151	1140	1144	110
15°	1095	1068	937	837	800	308
25°	981	866	617	452	404	452
35°	834	629	319	174	155	522
45°	669	397	131	85	72	516
55°	498	188	56	34	30	445
65°	324	69	20	16	14	322
75°	157	14	9	7	6	167
85°	23	1	3	1	1	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1174.0	1174.0	1174.0	1174.0	1174.0
2.5°	1161.1	1178.4	1164.0	1164.0	1166.8
5°	1155.3	1169.7	1151.0	1139.5	1143.8
7.5°	1146.7	1156.8	1117.9	1083.4	1080.5
10°	1133.8	1138.1	1067.6	1014.3	1000.0
12.5°	1115.1	1105.0	1005.7	930.9	906.4
15°	1094.9	1067.6	936.6	837.4	800.0
17.5°	1070.5	1021.5	860.4	739.5	693.5
20°	1043.1	974.1	781.3	637.4	587.0
22.5°	1012.9	920.8	699.2	541.0	490.6
25°	981.2	866.1	617.2	451.8	404.3
27.5°	948.2	808.6	536.7	371.2	319.4
30°	909.3	749.6	460.4	293.5	246.0
32.5°	873.3	687.7	389.9	227.3	187.0
35°	834.5	628.7	319.4	174.1	155.4
37.5°	794.2	569.8	257.5	146.8	130.9
40°	753.9	510.8	201.4	123.7	109.3
42.5°	712.2	453.2	155.4	103.6	89.2
45°	669.0	397.1	130.9	84.9	71.9
47.5°	625.9	341.0	109.3	67.6	57.6
50°	582.7	287.8	90.6	53.2	46.0
52.5°	541.0	237.4	71.9	43.2	37.4
55°	497.8	188.5	56.1	34.5	30.2
57.5°	454.7	146.8	43.2	28.8	25.9
60°	412.9	110.8	33.1	23.0	21.6
62.5°	369.8	89.2	25.9	18.7	17.3
65°	323.7	69.1	20.1	15.8	14.4
67.5°	282.0	50.4	15.8	12.9	11.5
70°	238.8	34.5	12.9	11.5	10.1
72.5°	197.1	21.6	10.1	8.6	8.6
75°	156.8	14.4	8.6	7.2	5.8
77.5°	119.4	8.6	5.8	5.8	4.3
80°	83.4	5.8	4.3	4.3	4.3
82.5°	51.8	4.3	2.9	2.9	2.9
85°	23.0	1.4	2.9	1.4	1.4
87.5°	4.3	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)