

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: P1055162

Luminaire Tested: S122R3DR-S1005D935-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055162
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-S1005D935-X4F0-XX-UDD-FLL-S
Description: DEFINE 2, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

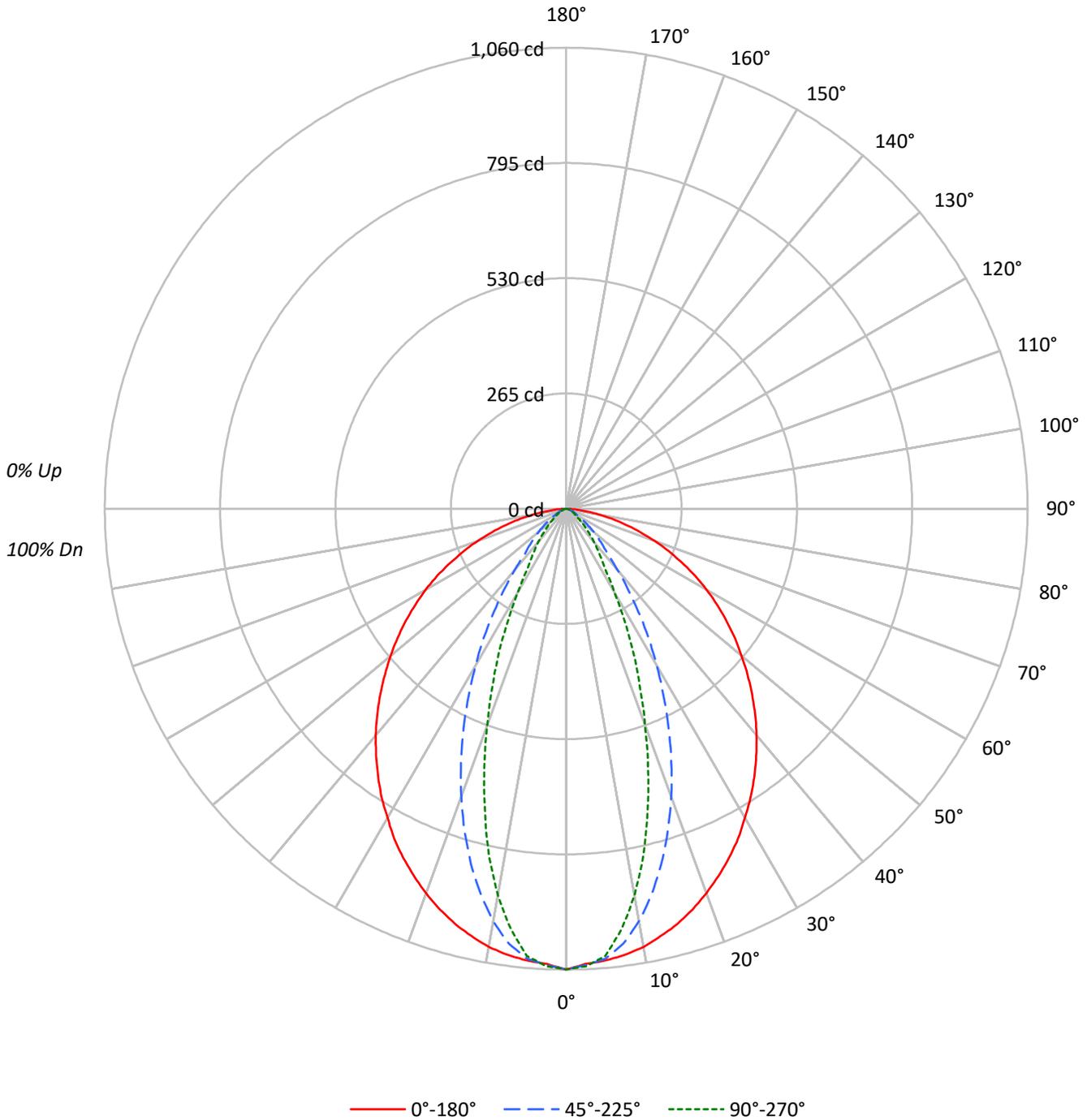
Lumens per Lamp: N/A
Luminaire Lumens: 1214.3 lumens
Efficiency: N/A
Efficacy: 29.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.64 / 0.81
Luminous Opening: Rectangular (W 0.15' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (A_{in}): 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°	20075	20075	20075
5°	19830	19756	19633
10°	19684	18536	17362
15°	19383	16580	14161
20°	18980	14216	10682
25°	18513	11646	7628
30°	17954	9090	4857
35°	17418	6668	3243
40°	16828	4496	2441
45°	16178	3167	1739
50°	15501	2411	1226
55°	14841	1671	902
60°	14122	1133	739
65°	13099	816	583
70°	11943	648	504
75°	10358	571	381
80°	8216	426	426
85°	4521	565	283

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16178 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	8.0
10°-20°	237.8	19.6
20°-30°	271.6	22.4
30°-40°	230.3	19.0
40°-50°	171.9	14.2
50°-60°	111.1	9.1
60°-70°	61.9	5.1
70°-80°	27.2	2.2
80°-90°	5.6	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°	606.3	49.9
0°-40°	836.6	68.9
0°-60°	1119.6	92.2
0°-90°	1214.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1214.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1043	1056	1039	1028	1032	99
15°	988	964	845	756	722	278
25°	886	782	557	408	365	408
35°	753	568	288	157	140	471
45°	604	358	118	77	65	466
55°	449	170	51	31	27	402
65°	292	62	18	14	13	290
75°	142	13	8	6	5	151
85°	21	1	3	1	1	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.6	1059.6	1059.6	1059.6	1059.6
2.5°	1047.9	1063.5	1050.5	1050.5	1053.1
5°	1042.7	1055.7	1038.8	1028.4	1032.3
7.5°	1034.9	1044.0	1008.9	977.8	975.2
10°	1023.2	1027.1	963.5	915.5	902.5
12.5°	1006.4	997.3	907.7	840.1	818.1
15°	988.2	963.5	845.3	755.7	722.0
17.5°	966.1	921.9	776.5	667.4	625.9
20°	941.4	879.1	705.1	575.2	529.8
22.5°	914.2	831.1	631.1	488.2	442.8
25°	885.6	781.7	557.1	407.7	364.9
27.5°	855.7	729.8	484.3	335.0	288.3
30°	820.7	676.5	415.5	264.9	222.0
32.5°	788.2	620.7	351.9	205.2	168.8
35°	753.1	567.5	288.3	157.1	140.2
37.5°	716.8	514.2	232.4	132.4	118.2
40°	680.4	461.0	181.8	111.7	98.7
42.5°	642.8	409.0	140.2	93.5	80.5
45°	603.8	358.4	118.2	76.6	64.9
47.5°	564.9	307.7	98.7	61.0	51.9
50°	525.9	259.7	81.8	48.0	41.6
52.5°	488.2	214.3	64.9	39.0	33.8
55°	449.3	170.1	50.6	31.2	27.3
57.5°	410.3	132.4	39.0	26.0	23.4
60°	372.7	100.0	29.9	20.8	19.5
62.5°	333.7	80.5	23.4	16.9	15.6
65°	292.2	62.3	18.2	14.3	13.0
67.5°	254.5	45.4	14.3	11.7	10.4
70°	215.6	31.2	11.7	10.4	9.1
72.5°	177.9	19.5	9.1	7.8	7.8
75°	141.5	13.0	7.8	6.5	5.2
77.5°	107.8	7.8	5.2	5.2	3.9
80°	75.3	5.2	3.9	3.9	3.9
82.5°	46.7	3.9	2.6	2.6	2.6
85°	20.8	1.3	2.6	1.3	1.3
87.5°	3.9	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)