

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: P1055993

Luminaire Tested: S124R3DR-S1195D927-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1055993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-9)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124R3DR-S1195D927-X4F0-XX-UDD-FLL-S
Description: DEFINE 4, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

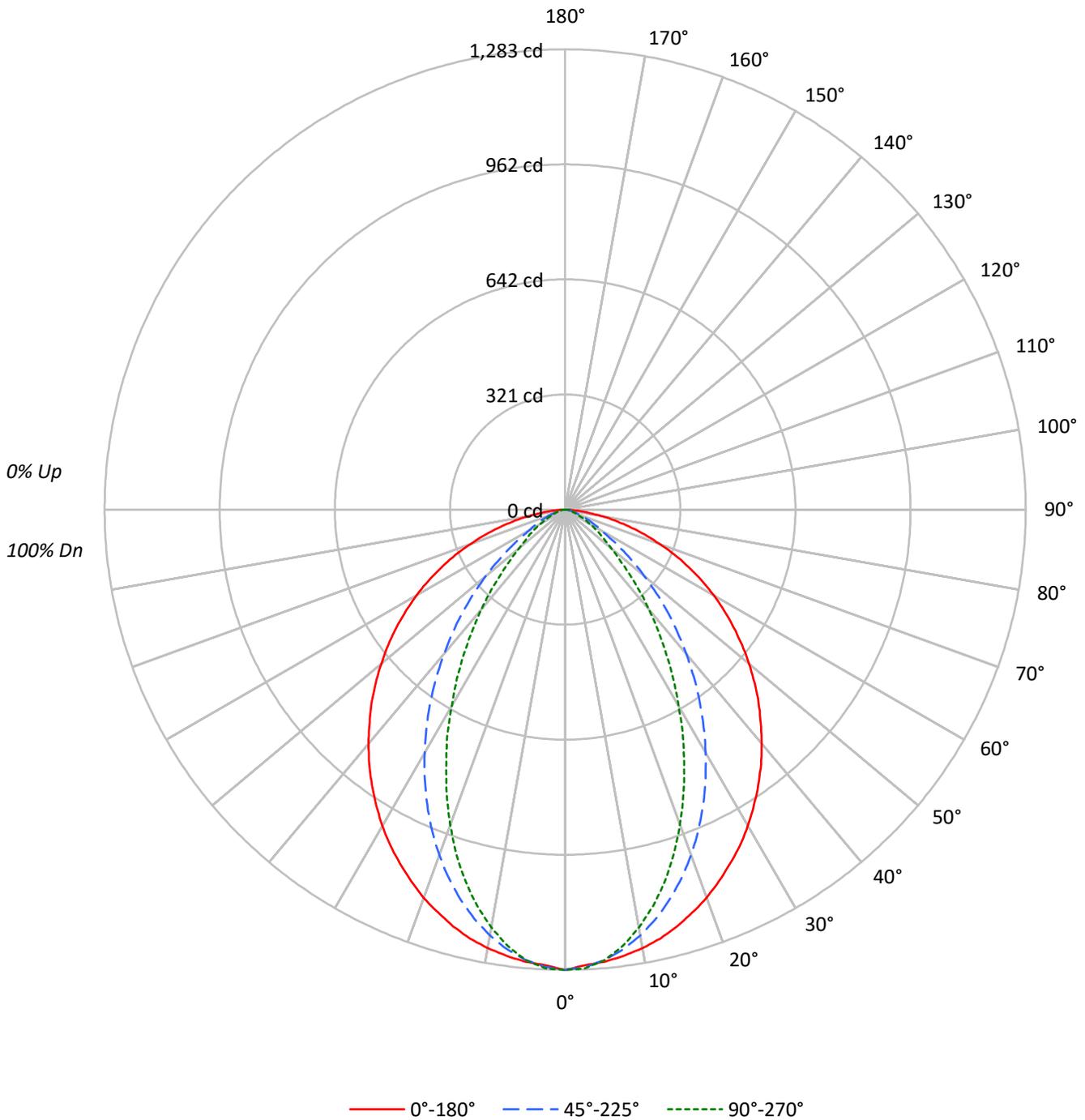
Lumens per Lamp: N/A
Luminaire Lumens: 2074.8 lumens
Efficiency: N/A
Efficacy: 49.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.87 / 1.03
Luminous Opening: Rectangular (W 0.31' x L: 3.9' x H: 0')
CIE Type: Direct

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	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	94	92	90	89
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	78
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	48
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	60	48	41	36	59	47	40	36	46	40	36	45	40	35	45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11344	11344	11344
5°	11229	11186	11186
10°	11144	10823	10619
15°	11012	10301	9821
20°	10836	9645	8802
25°	10618	8870	7645
30°	10392	7989	6440
35°	10123	7053	5300
40°	9831	6054	4178
45°	9530	5034	3122
50°	9202	3960	2285
55°	8840	2929	1824
60°	8451	2028	1395
65°	7948	1575	1025
70°	7197	1112	804
75°	6286	775	611
80°	5051	606	550
85°	2790	487	487

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9530 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	5.7
10°-20°	318.0	15.3
20°-30°	424.2	20.4
30°-40°	427.1	20.6
40°-50°	350.2	16.9
50°-60°	239.4	11.5
60°-70°	133.8	6.4
70°-80°	53.0	2.6
80°-90°	10.1	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°	861.2	41.5
0°-40°	1288.3	62.1
0°-60°	1877.9	90.5
0°-90°	2074.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2074.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1283	1283	1283	1283	1283	
5°	1265	1280	1260	1254	1260	120
15°	1203	1190	1125	1086	1073	339
25°	1088	1035	909	817	784	501
35°	938	839	654	529	491	586
45°	762	622	403	283	250	588
55°	574	403	190	127	118	513
65°	380	191	75	54	49	375
75°	184	50	23	19	18	197
85°	28	5	5	5	5	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1283.1	1283.1	1283.1	1283.1	1283.1
2.5°	1271.2	1286.7	1276.0	1277.2	1279.6
5°	1265.2	1279.6	1260.4	1254.5	1260.4
7.5°	1254.5	1265.2	1236.5	1224.6	1227.0
10°	1241.3	1244.9	1205.5	1185.2	1182.8
12.5°	1224.6	1219.8	1168.4	1138.6	1131.4
15°	1203.1	1190.0	1125.4	1086.0	1072.9
17.5°	1178.0	1155.3	1077.6	1026.3	1007.2
20°	1151.7	1118.3	1025.1	959.4	935.5
22.5°	1120.7	1078.8	968.9	888.9	861.4
25°	1088.4	1034.6	909.2	817.2	783.7
27.5°	1054.9	989.2	847.1	744.3	710.9
30°	1017.9	940.3	782.5	671.4	630.8
32.5°	978.5	890.1	718.0	599.8	561.5
35°	937.9	838.7	653.5	529.3	491.0
37.5°	896.0	786.1	589.0	462.4	424.1
40°	851.8	732.4	524.5	399.0	362.0
42.5°	806.4	677.4	462.4	339.3	304.7
45°	762.2	622.5	402.6	283.2	249.7
47.5°	715.6	567.5	344.1	230.6	201.9
50°	669.0	512.5	287.9	185.2	166.1
52.5°	621.3	457.6	236.6	151.7	138.6
55°	573.5	402.6	190.0	126.6	118.3
57.5°	525.7	347.7	147.0	107.5	98.0
60°	477.9	293.9	114.7	87.2	78.9
62.5°	428.9	240.1	94.4	69.3	62.1
65°	379.9	191.2	75.3	53.8	49.0
67.5°	330.9	145.8	57.3	41.8	38.2
70°	278.4	103.9	43.0	32.3	31.1
72.5°	233.0	70.5	31.1	25.1	23.9
75°	184.0	50.2	22.7	19.1	17.9
77.5°	142.2	32.3	16.7	15.5	14.3
80°	99.2	17.9	11.9	10.8	10.8
82.5°	60.9	9.6	8.4	7.2	7.2
85°	27.5	4.8	4.8	4.8	4.8
87.5°	4.8	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)