

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: P1056000

Luminaire Tested: S124R3DR-S1195D935-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-7)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124R3DR-S1195D935-X4F0-XX-UDD-FLL-W
Description: DEFINE 4, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

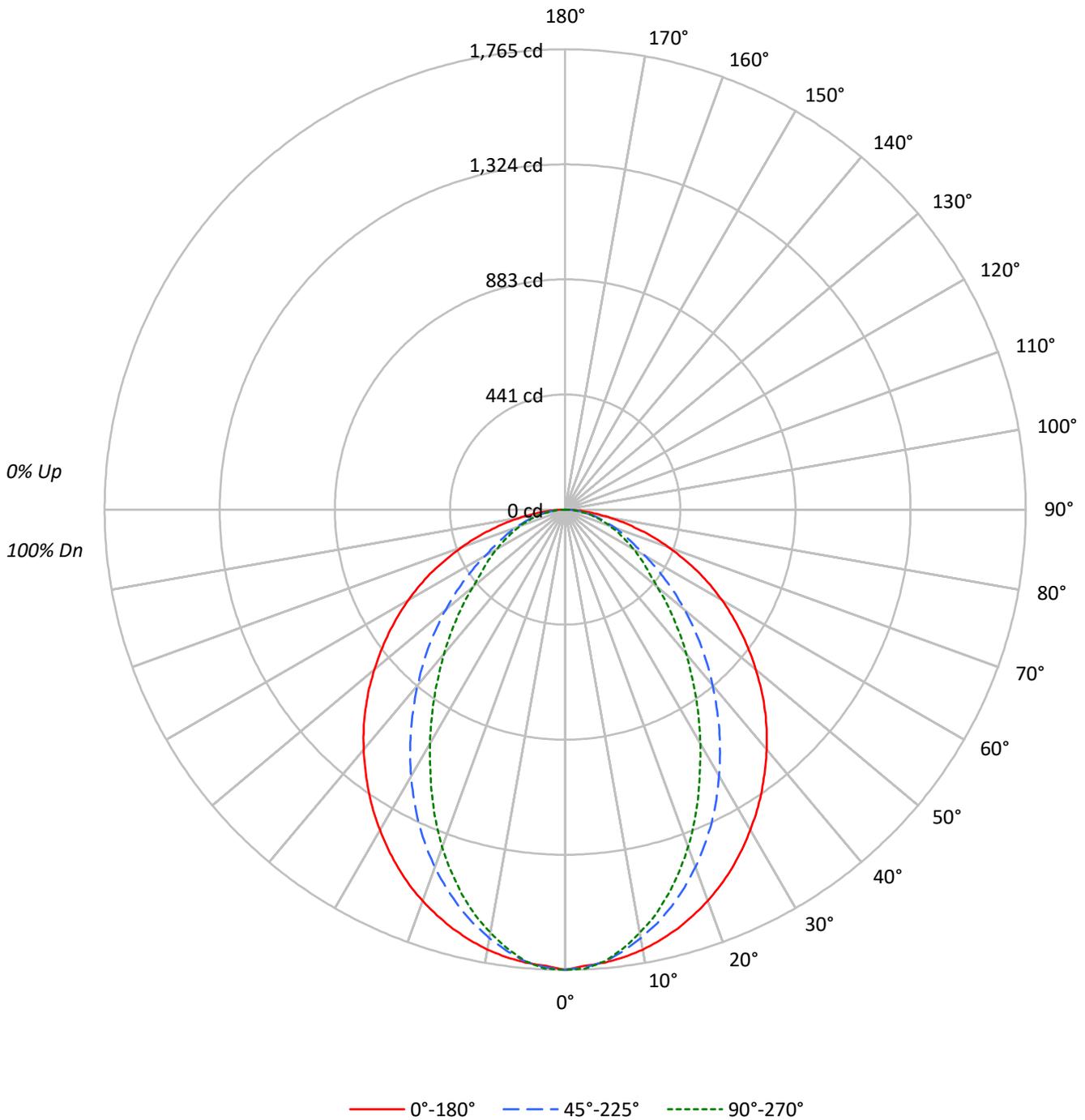
Lumens per Lamp: N/A
Luminaire Lumens: 3514.8 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.95 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 3.9' x H: 0')
CIE Type: Direct

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	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	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73				
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63				
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55				
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49				
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43				
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39				
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35				
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32				
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15602	15602	15602
5°	15477	15443	15431
10°	15388	14980	14794
15°	15226	14417	13978
20°	15028	13732	12962
25°	14783	12946	11781
30°	14490	12051	10579
35°	14184	11114	9418
40°	13863	10146	8333
45°	13525	9206	7322
50°	13110	8216	6323
55°	12711	7226	5745
60°	12261	6200	5328
65°	11709	5623	4971
70°	10875	5204	4700
75°	9848	4789	4437
80°	8595	4430	4165
85°	6584	4088	3824

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13525 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	4.7
10°-20°	445.7	12.7
20°-30°	617.1	17.6
30°-40°	662.3	18.8
40°-50°	602.3	17.1
50°-60°	474.3	13.5
60°-70°	324.6	9.2
70°-80°	174.8	5.0
80°-90°	49.5	1.4
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°	1227.0	34.9
0°-40°	1889.3	53.8
0°-60°	2965.9	84.4
0°-90°	3514.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3514.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1765	1765	1765	1765	1765	
5°	1744	1763	1740	1731	1739	166
15°	1663	1645	1575	1532	1527	469
25°	1515	1453	1327	1231	1208	698
35°	1314	1212	1030	905	873	822
45°	1082	944	736	609	586	834
55°	825	667	469	378	373	737
65°	560	400	269	239	238	552
75°	288	175	140	129	130	308
85°	65	44	40	38	38	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1764.7	1764.7	1764.7	1764.7	1764.7
2.5°	1751.7	1772.5	1756.9	1759.5	1762.1
5°	1743.9	1763.4	1740.0	1730.9	1738.7
7.5°	1730.9	1743.9	1707.6	1690.7	1698.5
10°	1714.0	1716.6	1668.6	1643.9	1647.8
12.5°	1690.7	1684.2	1625.7	1590.7	1593.3
15°	1663.4	1645.2	1575.1	1532.3	1527.1
17.5°	1632.2	1602.4	1519.3	1464.7	1454.3
20°	1597.2	1556.9	1459.5	1389.4	1377.7
22.5°	1558.2	1506.3	1394.6	1311.5	1294.6
25°	1515.4	1453.0	1327.1	1231.0	1207.6
27.5°	1468.6	1395.9	1254.4	1149.2	1119.3
30°	1419.3	1336.2	1180.4	1067.4	1036.2
32.5°	1368.6	1275.1	1105.0	985.6	953.1
35°	1314.1	1211.5	1029.7	905.1	872.6
37.5°	1258.3	1145.3	953.1	827.2	793.4
40°	1201.1	1079.1	879.1	749.2	722.0
42.5°	1142.7	1011.5	806.4	676.5	651.9
45°	1081.7	944.0	736.3	609.0	585.6
47.5°	1019.3	875.2	664.8	545.4	523.3
50°	953.1	806.4	597.3	483.0	459.7
52.5°	889.5	736.3	532.4	422.0	410.3
55°	824.6	667.4	468.8	377.9	372.7
57.5°	759.6	598.6	410.3	342.8	337.6
60°	693.4	531.1	350.6	306.5	301.3
62.5°	627.2	464.9	306.5	271.4	268.8
65°	559.7	399.9	268.8	238.9	237.6
67.5°	488.2	337.6	235.0	210.4	209.1
70°	420.7	275.3	201.3	181.8	181.8
72.5°	357.1	218.2	170.1	154.5	154.5
75°	288.3	175.3	140.2	128.6	129.9
77.5°	227.2	137.6	113.0	105.2	105.2
80°	168.8	102.6	87.0	80.5	81.8
82.5°	114.3	71.4	62.3	58.4	58.4
85°	64.9	44.1	40.3	37.7	37.7
87.5°	23.4	20.8	19.5	16.9	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)