

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: P1056065

Luminaire Tested: S124R3DR-S795D835-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056065
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-S795D835-X4F0-XX-UDD-FLL-S
Description: DEFINE 4, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

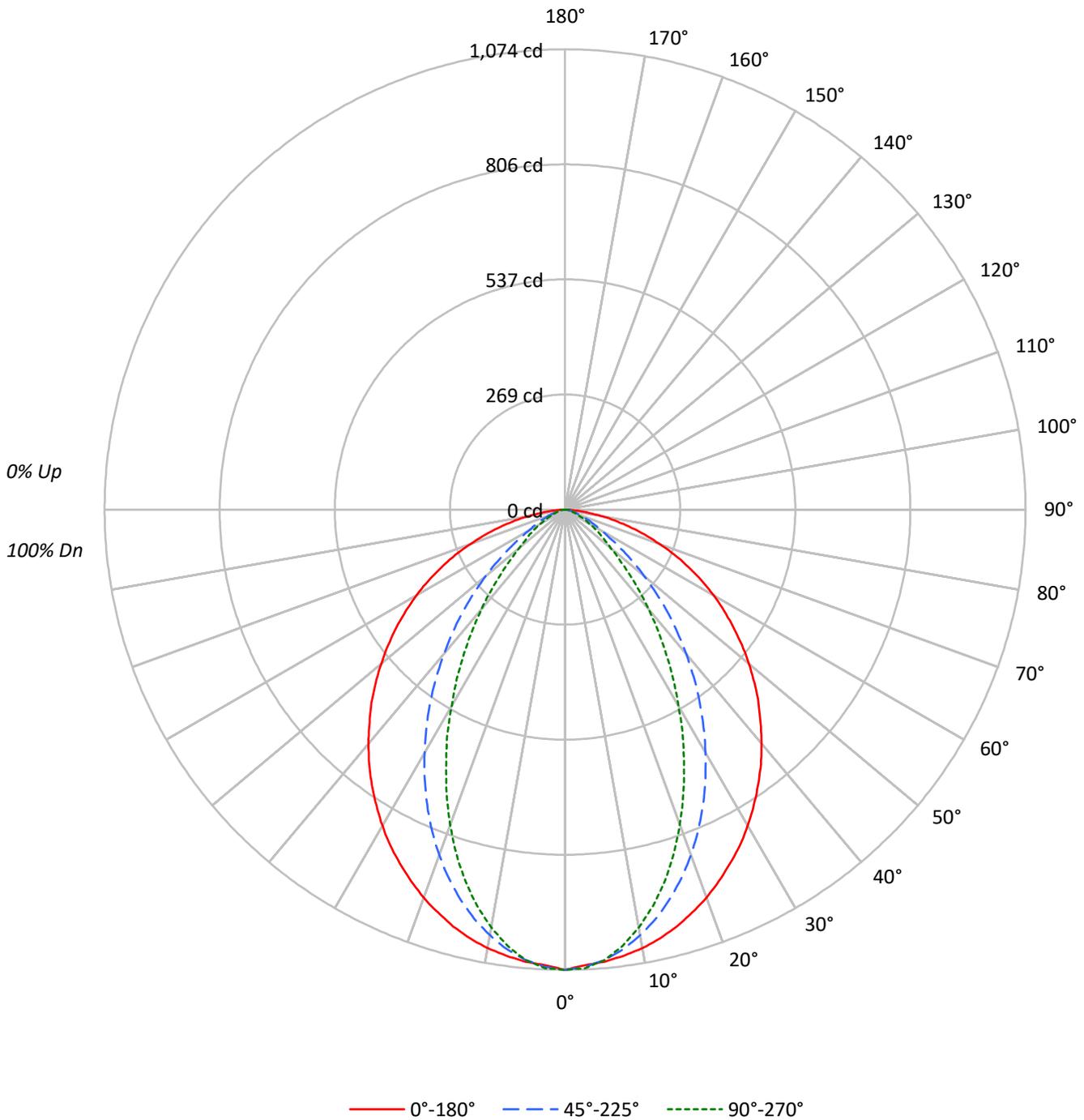
Lumens per Lamp: N/A
Luminaire Lumens: 1736.6 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.87 / 1.03
Luminous Opening: Rectangular (W 0.31' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89				89
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	78				78
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68				68
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60				60
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54				54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	48				48
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44				44
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40				40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37				37
10	60	48	41	36	59	47	40	36	46	40	36	45	40	35	45	39	35	34				34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9496	9496	9496
5°	9399	9363	9363
10°	9328	9059	8888
15°	9217	8622	8220
20°	9070	8073	7367
25°	8887	7424	6400
30°	8698	6687	5390
35°	8473	5904	4436
40°	8229	5067	3497
45°	7977	4214	2613
50°	7703	3315	1912
55°	7399	2451	1526
60°	7073	1698	1167
65°	6653	1318	858
70°	6023	931	672
75°	5261	649	512
80°	4226	509	458
85°	2333	406	406

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7977 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	5.7
10°-20°	266.2	15.3
20°-30°	355.0	20.4
30°-40°	357.5	20.6
40°-50°	293.1	16.9
50°-60°	200.4	11.5
60°-70°	112.0	6.4
70°-80°	44.4	2.6
80°-90°	8.4	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°	720.8	41.5
0°-40°	1078.3	62.1
0°-60°	1571.8	90.5
0°-90°	1736.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1736.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1059	1071	1055	1050	1055	100
15°	1007	996	942	909	898	284
25°	911	866	761	684	656	420
35°	785	702	547	443	411	491
45°	638	521	337	237	209	492
55°	480	337	159	106	99	429
65°	318	160	63	45	41	314
75°	154	42	19	16	15	165
85°	23	4	4	4	4	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1074	1074	1074	1074	1074
2.5°	1064	1077	1068	1069	1071
5°	1059	1071	1055	1050	1055
7.5°	1050	1059	1035	1025	1027
10°	1039	1042	1009	992	990
12.5°	1025	1021	978	953	947
15°	1007	996	942	909	898
17.5°	986	967	902	859	843
20°	964	936	858	803	783
22.5°	938	903	811	744	721
25°	911	866	761	684	656
27.5°	883	828	709	623	595
30°	852	787	655	562	528
32.5°	819	745	601	502	470
35°	785	702	547	443	411
37.5°	750	658	493	387	355
40°	713	613	439	334	303
42.5°	675	567	387	284	255
45°	638	521	337	237	209
47.5°	599	475	288	193	169
50°	560	429	241	155	139
52.5°	520	383	198	127	116
55°	480	337	159	106	99
57.5°	440	291	123	90	82
60°	400	246	96	73	66
62.5°	359	201	79	58	52
65°	318	160	63	45	41
67.5°	277	122	48	35	32
70°	233	87	36	27	26
72.5°	195	59	26	21	20
75°	154	42	19	16	15
77.5°	119	27	14	13	12
80°	83	15	10	9	9
82.5°	51	8	7	6	6
85°	23	4	4	4	4
87.5°	4	2	2	2	2
90°	0	0	0	0	0

(END OF REPORT)