

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: P1056401

Luminaire Tested: S125R3DR-S1270D930-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-12)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125R3DR-S1270D930-X4F0-XX-UDD-FLL-S
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

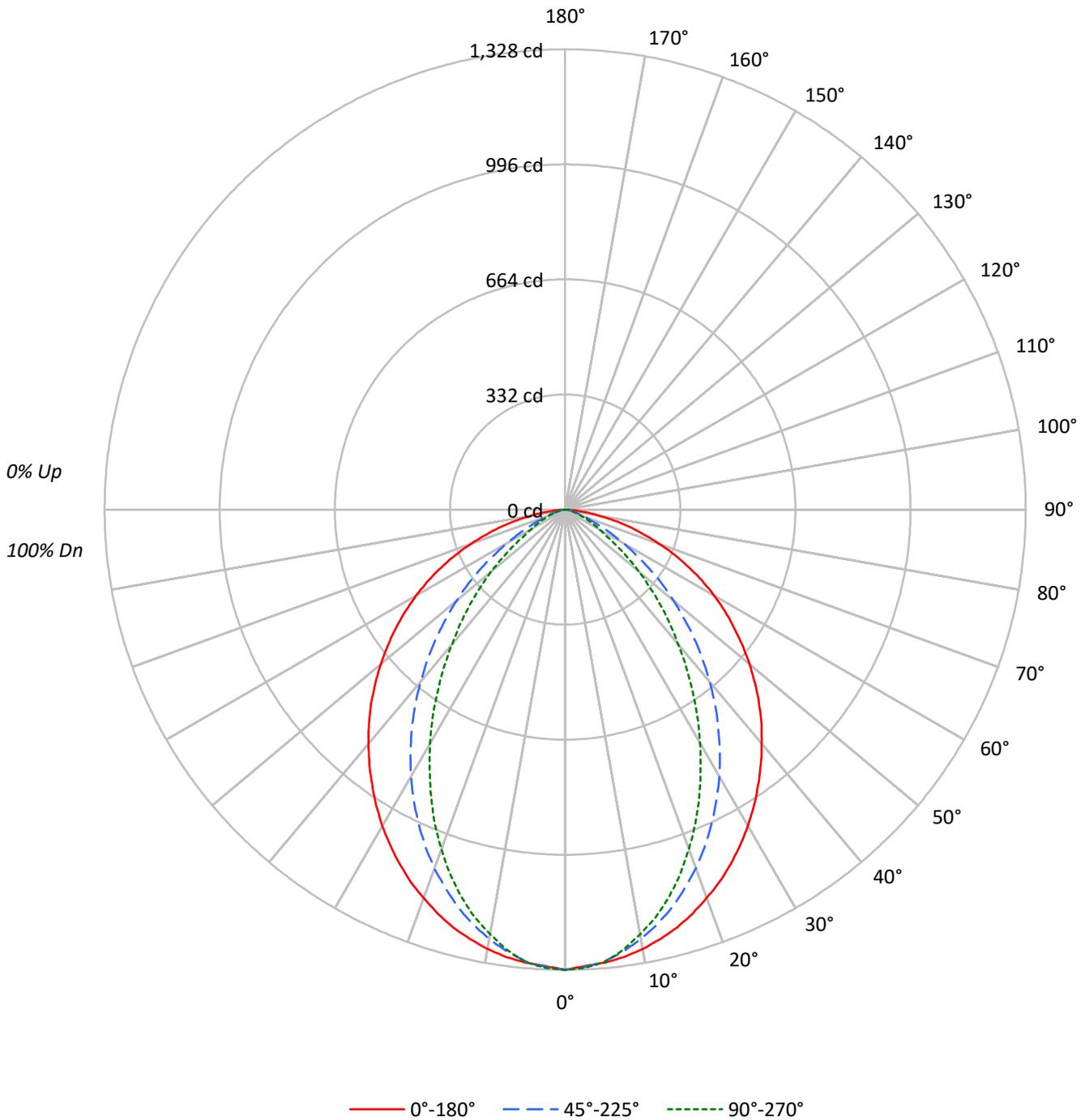
Lumens per Lamp: N/A
Luminaire Lumens: 2400.2 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1056401

CATALOG NUMBER: S125R3DR-S1270D930-X4F0-XX-UDD-FLL-S

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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				
2	102	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47				
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	54	48	44	42				
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35				
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9388	9388	9388
5°	9310	9284	9301
10°	9241	9030	8932
15°	9134	8702	8468
20°	8973	8288	7844
25°	8805	7798	7136
30°	8602	7257	6353
35°	8372	6643	5528
40°	8136	5969	4675
45°	7904	5262	3872
50°	7627	4476	3043
55°	7335	3637	2212
60°	7006	2712	1582
65°	6582	1790	1234
70°	5947	1246	864
75°	5173	806	672
80°	4055	603	550
85°	2093	495	397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7904 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	5.2
10°-20°	336.3	14.0
20°-30°	465.0	19.4
30°-40°	492.6	20.5
40°-50°	430.0	17.9
50°-60°	305.8	12.7
60°-70°	170.1	7.1
70°-80°	65.4	2.7
80°-90°	11.3	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°	924.9	38.5
0°-40°	1417.6	59.1
0°-60°	2153.4	89.7
0°-90°	2400.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2400.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1312	1322	1308	1305	1311	124
15°	1248	1237	1189	1163	1157	351
25°	1129	1091	1000	938	915	520
35°	970	904	770	676	641	607
45°	791	696	526	420	387	609
55°	595	477	295	204	180	532
65°	394	258	107	79	74	389
75°	189	74	30	25	25	201
85°	26	7	6	5	5	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1328.0	1328.0	1328.0	1328.0	1328.0
2.5°	1318.1	1331.7	1320.6	1321.8	1323.0
5°	1312.0	1321.8	1308.3	1304.6	1310.7
7.5°	1302.1	1309.5	1286.2	1277.5	1281.2
10°	1287.4	1289.8	1257.9	1245.6	1244.3
12.5°	1268.9	1265.3	1225.9	1206.2	1205.0
15°	1248.0	1237.0	1189.0	1163.2	1157.0
17.5°	1222.2	1205.0	1146.0	1112.8	1102.9
20°	1192.7	1169.3	1101.7	1058.7	1042.7
22.5°	1163.2	1131.2	1052.5	998.4	981.2
25°	1128.8	1090.7	999.7	938.2	914.8
27.5°	1091.9	1046.4	945.6	874.2	846.0
30°	1053.8	1000.9	889.0	809.1	778.3
32.5°	1013.2	952.9	830.0	742.7	710.7
35°	970.1	903.8	769.7	676.3	640.6
37.5°	927.1	853.3	710.7	611.1	574.2
40°	881.6	801.7	646.8	544.7	506.6
42.5°	837.4	748.8	586.5	482.0	447.6
45°	790.6	696.0	526.3	420.5	387.3
47.5°	742.7	640.6	466.0	362.7	329.5
50°	693.5	586.5	407.0	306.2	276.7
52.5°	644.3	532.4	351.7	252.1	226.2
55°	595.1	477.1	295.1	204.1	179.5
57.5°	545.9	423.0	242.2	159.8	137.7
60°	495.5	367.6	191.8	118.0	111.9
62.5°	445.1	313.5	148.8	97.1	92.2
65°	393.5	258.2	107.0	78.7	73.8
67.5°	341.8	207.8	77.5	60.3	56.6
70°	287.7	158.6	60.3	45.5	41.8
72.5°	236.1	114.4	43.0	33.2	32.0
75°	189.4	73.8	29.5	24.6	24.6
77.5°	142.6	44.3	20.9	18.4	18.4
80°	99.6	25.8	14.8	13.5	13.5
82.5°	60.3	13.5	9.8	8.6	8.6
85°	25.8	7.4	6.1	4.9	4.9
87.5°	4.9	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)