

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: P1056397

Luminaire Tested: S125R3DR-S1270D927-X4F0-XX-UDD-FLL-B

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-11)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125R3DR-S1270D927-X4F0-XX-UDD-FLL-B
Description: DEFINE 5, BLACK 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

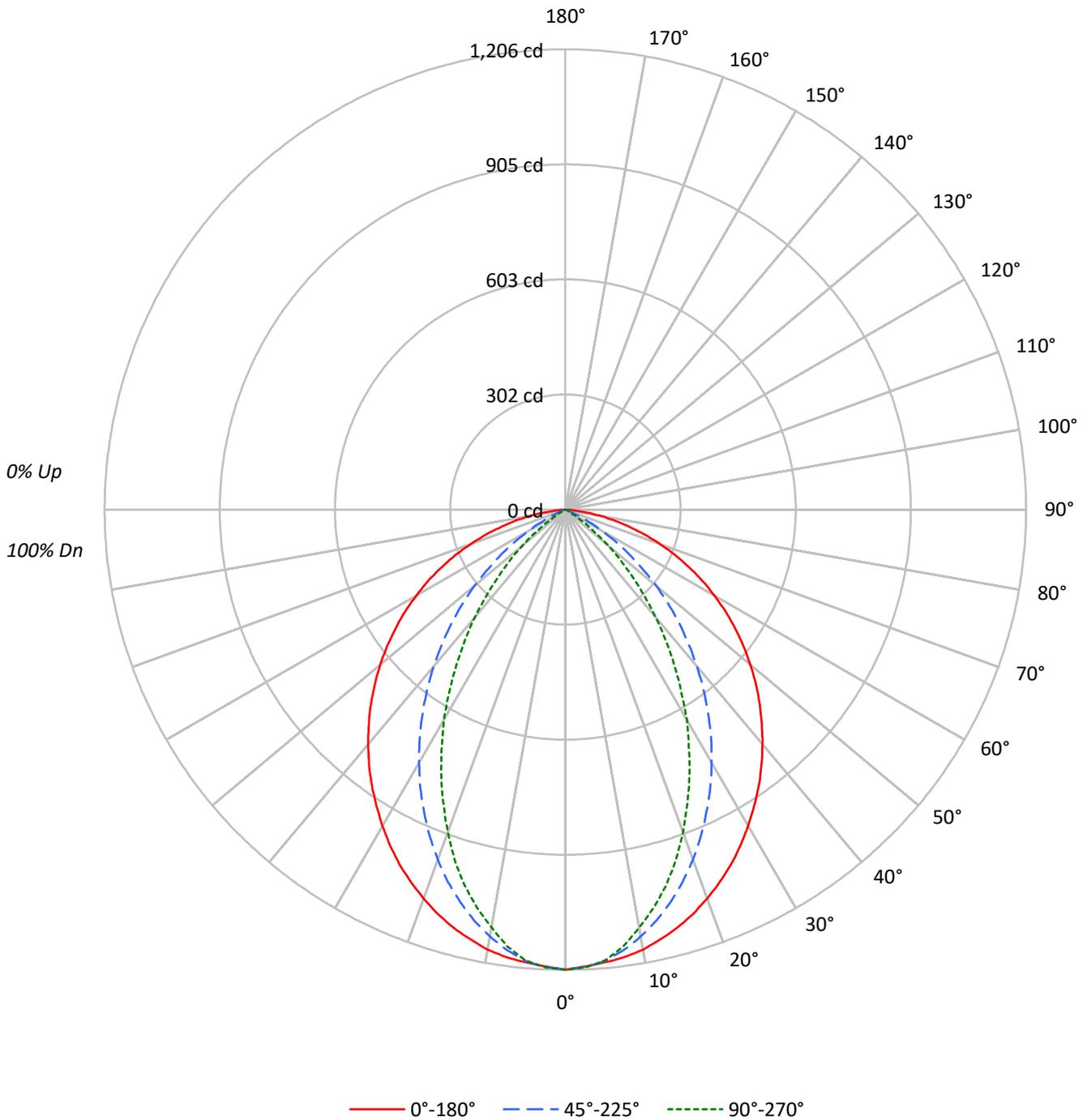
Lumens per Lamp: N/A
Luminaire Lumens: 1953.9 lumens
Efficiency: N/A
Efficacy: 46.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.89 / 1.07
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	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	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89																												
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78																												
3	96	87	81	75	94	86	80	75	83	78	74	80	76	72	78	74	71	69																												
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61																												
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55																												
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49																												
7	72	61	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45																												
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41																												
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37																												
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8522	8522	8522
5°	8452	8428	8419
10°	8404	8156	7985
15°	8298	7791	7459
20°	8161	7343	6768
25°	8005	6821	6001
30°	7812	6251	5188
35°	7619	5619	4289
40°	7409	4939	3396
45°	7190	4216	2460
50°	6951	3403	1590
55°	6685	2488	706
60°	6368	1537	202
65°	5975	560	120
70°	5407	198	50
75°	4698	66	33
80°	3599	49	0
85°	1647	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7190 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	5.7
10°-20°	300.6	15.4
20°-30°	406.7	20.8
30°-40°	417.8	21.4
40°-50°	346.2	17.7
50°-60°	222.2	11.4
60°-70°	107.3	5.5
70°-80°	36.3	1.9
80°-90°	4.7	0.2
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°	819.4	41.9
0°-40°	1237.2	63.3
0°-60°	1805.6	92.4
0°-90°	1953.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1953.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1191	1201	1188	1180	1186	113
15°	1134	1120	1064	1028	1019	319
25°	1026	976	874	796	769	472
35°	883	798	651	538	497	552
45°	719	601	422	292	246	555
55°	542	398	202	88	57	485
65°	357	197	34	10	7	353
75°	172	37	2	1	1	182
85°	20	0	0	0	0	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1205.5	1205.5	1205.5	1205.5	1205.5
2.5°	1198.3	1207.9	1199.5	1198.3	1200.7
5°	1191.1	1200.7	1187.6	1180.4	1186.4
7.5°	1182.8	1187.6	1164.9	1152.9	1155.3
10°	1170.8	1169.6	1136.2	1115.9	1112.3
12.5°	1152.9	1146.9	1102.7	1074.1	1068.1
15°	1133.8	1119.5	1064.5	1027.5	1019.1
17.5°	1111.1	1088.4	1022.7	974.9	963.0
20°	1084.8	1053.8	976.1	917.6	899.6
22.5°	1056.1	1016.7	927.1	857.8	833.9
25°	1026.3	976.1	874.5	795.7	769.4
27.5°	992.8	934.3	822.0	732.4	700.1
30°	957.0	890.1	765.8	667.9	635.6
32.5°	919.9	845.9	709.7	603.3	563.9
35°	882.9	798.1	651.1	537.6	497.0
37.5°	843.5	750.3	593.8	475.5	431.3
40°	802.9	701.3	535.2	411.0	368.0
42.5°	761.0	651.1	476.7	350.1	305.9
45°	719.2	601.0	421.7	291.5	246.1
47.5°	676.2	549.6	364.4	234.2	194.7
50°	632.0	499.4	309.4	182.8	144.6
52.5°	587.8	448.0	253.3	132.6	98.0
55°	542.4	397.8	201.9	88.4	57.3
57.5°	497.0	346.5	154.1	49.0	21.5
60°	450.4	297.5	108.7	16.7	14.3
62.5°	405.0	244.9	68.1	13.1	10.8
65°	357.2	197.1	33.5	9.6	7.2
67.5°	310.6	151.7	14.3	6.0	3.6
70°	261.6	109.9	9.6	3.6	2.4
72.5°	216.2	70.5	6.0	2.4	1.2
75°	172.0	37.0	2.4	1.2	1.2
77.5°	129.0	15.5	1.2	1.2	1.2
80°	88.4	7.2	1.2	1.2	0.0
82.5°	52.6	2.4	1.2	1.2	0.0
85°	20.3	0.0	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)