

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: P1056370

Luminaire Tested: S125R3DR-S1090D927-X4F0-XX-UDD-FLL-B

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056370
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-S1090D927-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

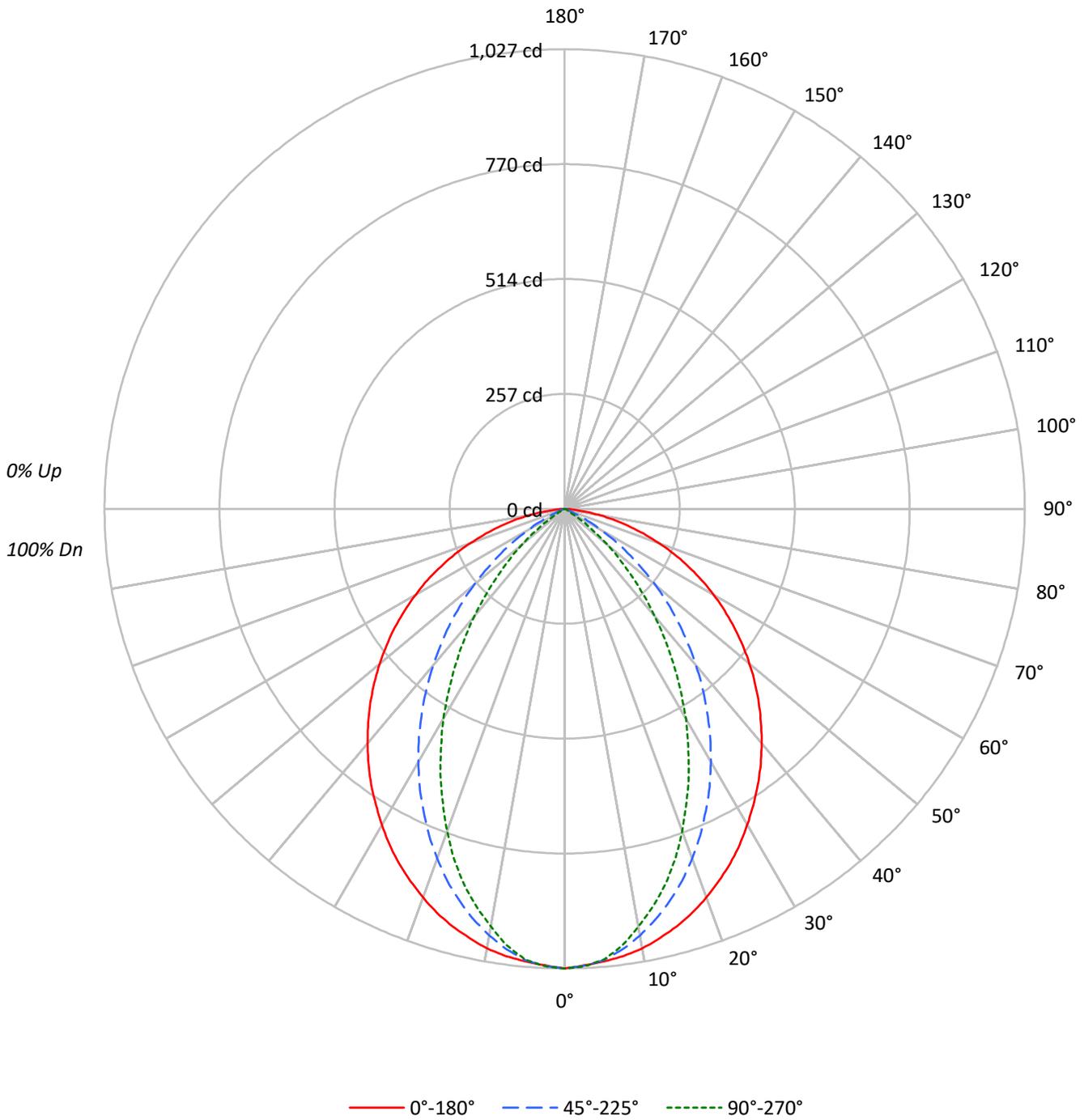
Lumens per Lamp: N/A
Luminaire Lumens: 1664.9 lumens
Efficiency: N/A
Efficacy: 48.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.89 / 1.07
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
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	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78				78
3	96	87	81	75	94	86	80	75	83	78	74	80	76	72	78	74	71	69				69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61				61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55				55
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49				49
7	72	61	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45				45
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41				41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37				37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34				34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7262	7262	7262
5°	7203	7181	7174
10°	7161	6949	6804
15°	7071	6638	6356
20°	6954	6257	5767
25°	6821	5813	5114
30°	6656	5326	4421
35°	6492	4788	3655
40°	6313	4209	2893
45°	6127	3593	2096
50°	5922	2900	1355
55°	5697	2120	603
60°	5426	1309	172
65°	5092	477	102
70°	4607	167	41
75°	4004	55	27
80°	3066	41	0
85°	1403	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6127 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	5.7
10°-20°	256.2	15.4
20°-30°	346.6	20.8
30°-40°	356.0	21.4
40°-50°	295.0	17.7
50°-60°	189.4	11.4
60°-70°	91.5	5.5
70°-80°	30.9	1.9
80°-90°	4.0	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°	698.2	41.9
0°-40°	1054.2	63.3
0°-60°	1538.5	92.4
0°-90°	1664.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1664.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1027	1027	1027	1027	1027	
5°	1015	1023	1012	1006	1011	96
15°	966	954	907	876	868	272
25°	874	832	745	678	656	402
35°	752	680	555	458	424	470
45°	613	512	359	248	210	473
55°	462	339	172	75	49	413
65°	304	168	28	8	6	301
75°	147	32	2	1	1	155
85°	17	0	0	0	0	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1027.2	1027.2	1027.2	1027.2	1027.2
2.5°	1021.1	1029.2	1022.1	1021.1	1023.1
5°	1015.0	1023.1	1011.9	1005.8	1010.9
7.5°	1007.8	1011.9	992.6	982.4	984.4
10°	997.6	996.6	968.1	950.8	947.8
12.5°	982.4	977.3	939.6	915.2	910.1
15°	966.1	953.9	907.0	875.5	868.4
17.5°	946.7	927.4	871.4	830.7	820.5
20°	924.3	897.9	831.7	781.8	766.6
22.5°	899.9	866.3	790.0	730.9	710.6
25°	874.5	831.7	745.2	678.0	655.6
27.5°	846.0	796.1	700.4	624.0	596.6
30°	815.4	758.4	652.5	569.1	541.6
32.5°	783.9	720.7	604.7	514.1	480.5
35°	752.3	680.0	554.8	458.1	423.5
37.5°	718.7	639.3	505.9	405.2	367.5
40°	684.1	597.6	456.1	350.2	313.5
42.5°	648.5	554.8	406.2	298.3	260.6
45°	612.8	512.1	359.4	248.4	209.7
47.5°	576.2	468.3	310.5	199.5	165.9
50°	538.5	425.5	263.7	155.8	123.2
52.5°	500.9	381.8	215.8	113.0	83.5
55°	462.2	339.0	172.0	75.3	48.9
57.5°	423.5	295.2	131.3	41.7	18.3
60°	383.8	253.5	92.6	14.3	12.2
62.5°	345.1	208.7	58.0	11.2	9.2
65°	304.4	168.0	28.5	8.1	6.1
67.5°	264.7	129.3	12.2	5.1	3.1
70°	222.9	93.7	8.1	3.1	2.0
72.5°	184.3	60.1	5.1	2.0	1.0
75°	146.6	31.6	2.0	1.0	1.0
77.5°	109.9	13.2	1.0	1.0	1.0
80°	75.3	6.1	1.0	1.0	0.0
82.5°	44.8	2.0	1.0	1.0	0.0
85°	17.3	0.0	0.0	0.0	0.0
87.5°	1.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)