

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: P1056425

Luminaire Tested: S125R3DR-S375D927-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056425
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-S375D927-X4F0-XX-UDD-FLL-S
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

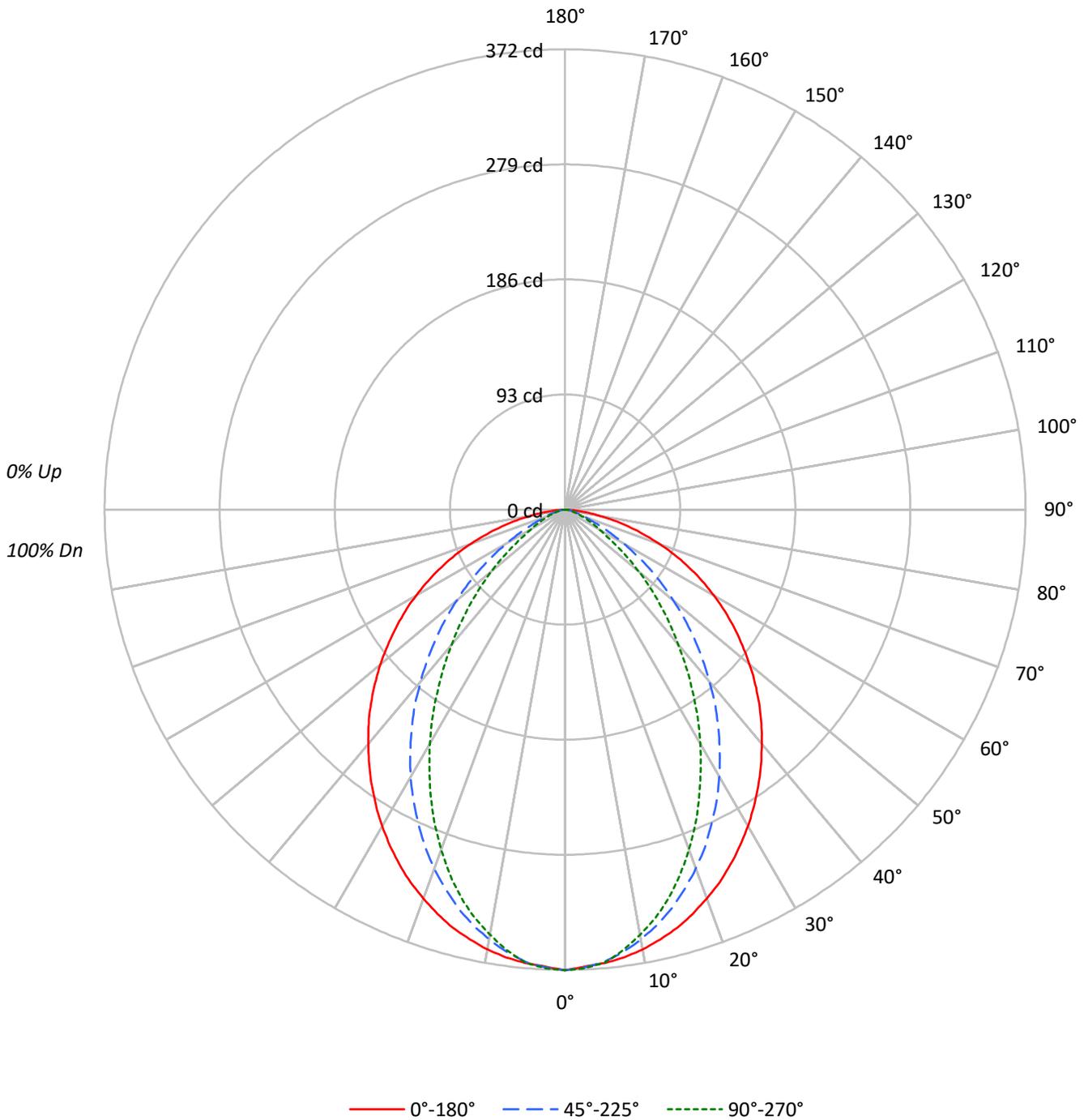
Lumens per Lamp: N/A
Luminaire Lumens: 673.1 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 12.6
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	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°	2633	2633	2633
5°	2611	2604	2609
10°	2591	2532	2505
15°	2562	2440	2375
20°	2516	2324	2200
25°	2469	2186	2001
30°	2412	2035	1782
35°	2348	1862	1550
40°	2281	1674	1311
45°	2216	1476	1086
50°	2139	1255	853
55°	2057	1021	620
60°	1965	761	444
65°	1845	502	346
70°	1668	349	242
75°	1450	227	188
80°	1136	167	155
85°	584	138	114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2216 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	5.2
10°-20°	94.3	14.0
20°-30°	130.4	19.4
30°-40°	138.1	20.5
40°-50°	120.6	17.9
50°-60°	85.8	12.7
60°-70°	47.7	7.1
70°-80°	18.3	2.7
80°-90°	3.2	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°	259.4	38.5
0°-40°	397.5	59.1
0°-60°	603.9	89.7
0°-90°	673.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	673.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	372	372	372	372	372	
5°	368	371	367	366	368	35
15°	350	347	333	326	324	99
25°	316	306	280	263	256	146
35°	272	253	216	190	180	170
45°	222	195	148	118	109	171
55°	167	134	83	57	50	149
65°	110	72	30	22	21	109
75°	53	21	8	7	7	56
85°	7	2	2	1	1	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	372.4	372.4	372.4	372.4	372.4
2.5°	369.6	373.4	370.3	370.7	371.0
5°	367.9	370.7	366.9	365.8	367.6
7.5°	365.1	367.2	360.7	358.3	359.3
10°	361.0	361.7	352.7	349.3	348.9
12.5°	355.8	354.8	343.8	338.3	337.9
15°	350.0	346.9	333.4	326.2	324.5
17.5°	342.7	337.9	321.4	312.0	309.3
20°	334.5	327.9	308.9	296.9	292.4
22.5°	326.2	317.2	295.2	280.0	275.2
25°	316.5	305.8	280.3	263.1	256.5
27.5°	306.2	293.4	265.2	245.2	237.2
30°	295.5	280.7	249.3	226.9	218.3
32.5°	284.1	267.2	232.7	208.3	199.3
35°	272.1	253.4	215.8	189.6	179.6
37.5°	260.0	239.3	199.3	171.4	161.0
40°	247.2	224.8	181.4	152.7	142.1
42.5°	234.8	210.0	164.5	135.2	125.5
45°	221.7	195.2	147.6	117.9	108.6
47.5°	208.3	179.6	130.7	101.7	92.4
50°	194.5	164.5	114.1	85.9	77.6
52.5°	180.7	149.3	98.6	70.7	63.4
55°	166.9	133.8	82.8	57.2	50.3
57.5°	153.1	118.6	67.9	44.8	38.6
60°	139.0	103.1	53.8	33.1	31.4
62.5°	124.8	87.9	41.7	27.2	25.9
65°	110.3	72.4	30.0	22.1	20.7
67.5°	95.9	58.3	21.7	16.9	15.9
70°	80.7	44.5	16.9	12.8	11.7
72.5°	66.2	32.1	12.1	9.3	9.0
75°	53.1	20.7	8.3	6.9	6.9
77.5°	40.0	12.4	5.9	5.2	5.2
80°	27.9	7.2	4.1	3.8	3.8
82.5°	16.9	3.8	2.8	2.4	2.4
85°	7.2	2.1	1.7	1.4	1.4
87.5°	1.4	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)