

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: P1056431

Luminaire Tested: S125R3DR-S375D935-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056431
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-S375D935-X4F0-XX-UDD-FLL-S
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

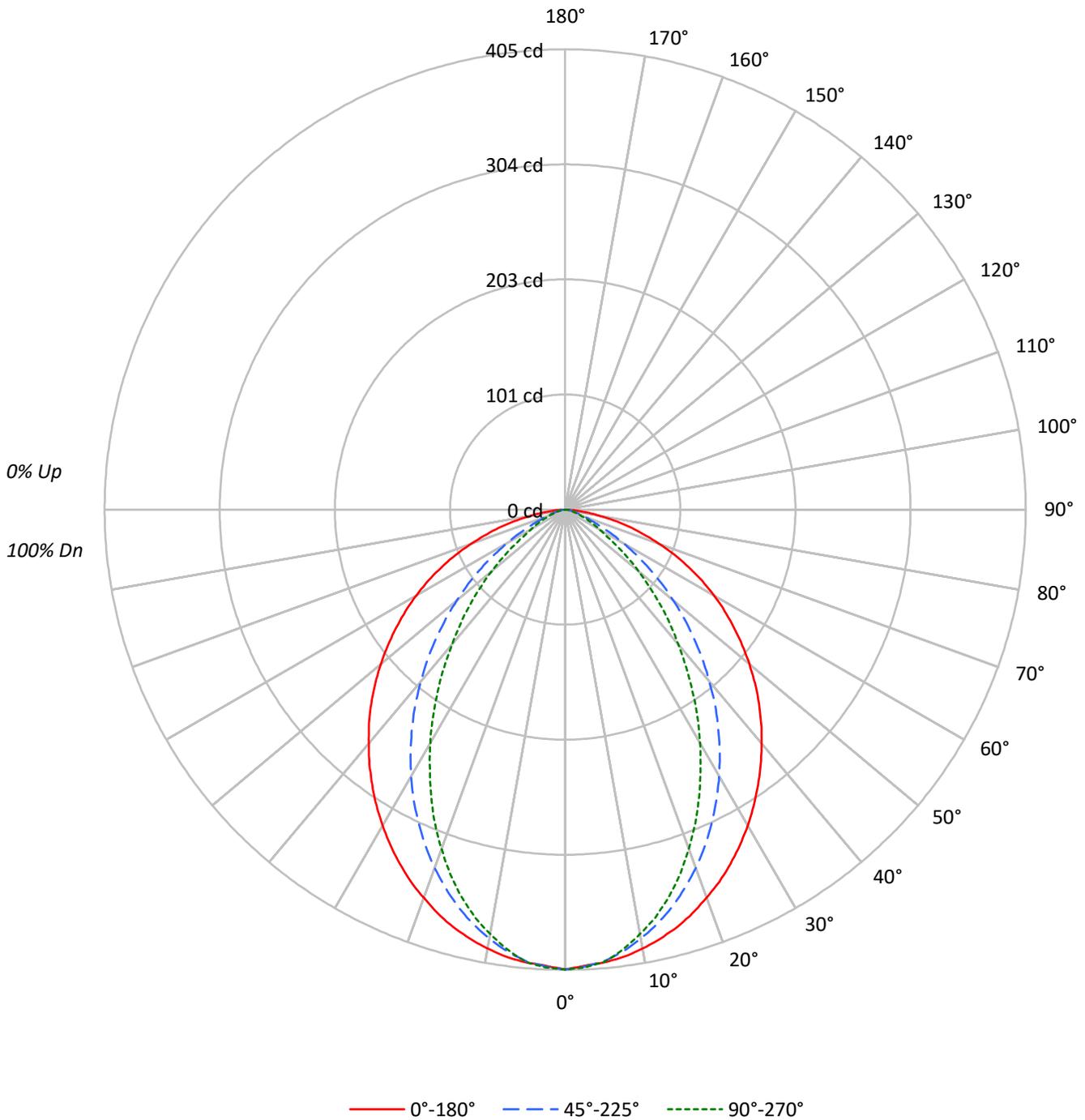
Lumens per Lamp: N/A
Luminaire Lumens: 731.5 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	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°	2861	2861	2861
5°	2838	2829	2835
10°	2817	2752	2723
15°	2784	2652	2581
20°	2735	2526	2391
25°	2683	2377	2175
30°	2622	2211	1936
35°	2552	2025	1685
40°	2480	1819	1425
45°	2409	1604	1180
50°	2325	1364	927
55°	2236	1108	674
60°	2135	827	482
65°	2006	545	376
70°	1813	380	263
75°	1576	246	205
80°	1238	183	167
85°	641	154	122

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2409 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	5.2
10°-20°	102.5	14.0
20°-30°	141.7	19.4
30°-40°	150.1	20.5
40°-50°	131.1	17.9
50°-60°	93.2	12.7
60°-70°	51.8	7.1
70°-80°	19.9	2.7
80°-90°	3.4	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°	281.9	38.5
0°-40°	432.1	59.1
0°-60°	656.3	89.7
0°-90°	731.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	731.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	405	405	405	405	405	
5°	400	403	399	398	400	38
15°	380	377	362	354	353	107
25°	344	332	305	286	279	158
35°	296	275	235	206	195	185
45°	241	212	160	128	118	186
55°	181	145	90	62	55	162
65°	120	79	33	24	22	119
75°	58	22	9	8	8	61
85°	8	2	2	2	2	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	404.7	404.7	404.7	404.7	404.7
2.5°	401.7	405.9	402.5	402.9	403.2
5°	399.9	402.9	398.7	397.6	399.5
7.5°	396.9	399.1	392.0	389.4	390.5
10°	392.4	393.1	383.4	379.6	379.3
12.5°	386.7	385.6	373.6	367.6	367.3
15°	380.4	377.0	362.4	354.5	352.6
17.5°	372.5	367.3	349.3	339.2	336.2
20°	363.5	356.4	335.8	322.7	317.8
22.5°	354.5	344.8	320.8	304.3	299.1
25°	344.0	332.4	304.7	285.9	278.8
27.5°	332.8	318.9	288.2	266.5	257.8
30°	321.2	305.1	270.9	246.6	237.2
32.5°	308.8	290.4	253.0	226.4	216.6
35°	295.7	275.4	234.6	206.1	195.2
37.5°	282.6	260.1	216.6	186.3	175.0
40°	268.7	244.3	197.1	166.0	154.4
42.5°	255.2	228.2	178.8	146.9	136.4
45°	241.0	212.1	160.4	128.2	118.0
47.5°	226.4	195.2	142.0	110.6	100.4
50°	211.4	178.8	124.0	93.3	84.3
52.5°	196.4	162.3	107.2	76.8	69.0
55°	181.4	145.4	89.9	62.2	54.7
57.5°	166.4	128.9	73.8	48.7	42.0
60°	151.0	112.1	58.5	36.0	34.1
62.5°	135.7	95.6	45.3	29.6	28.1
65°	119.9	78.7	32.6	24.0	22.5
67.5°	104.2	63.3	23.6	18.4	17.2
70°	87.7	48.3	18.4	13.9	12.7
72.5°	72.0	34.9	13.1	10.1	9.7
75°	57.7	22.5	9.0	7.5	7.5
77.5°	43.5	13.5	6.4	5.6	5.6
80°	30.4	7.9	4.5	4.1	4.1
82.5°	18.4	4.1	3.0	2.6	2.6
85°	7.9	2.2	1.9	1.5	1.5
87.5°	1.5	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)