

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: P1056426

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

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-10)
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-W
Description: DEFINE 5, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

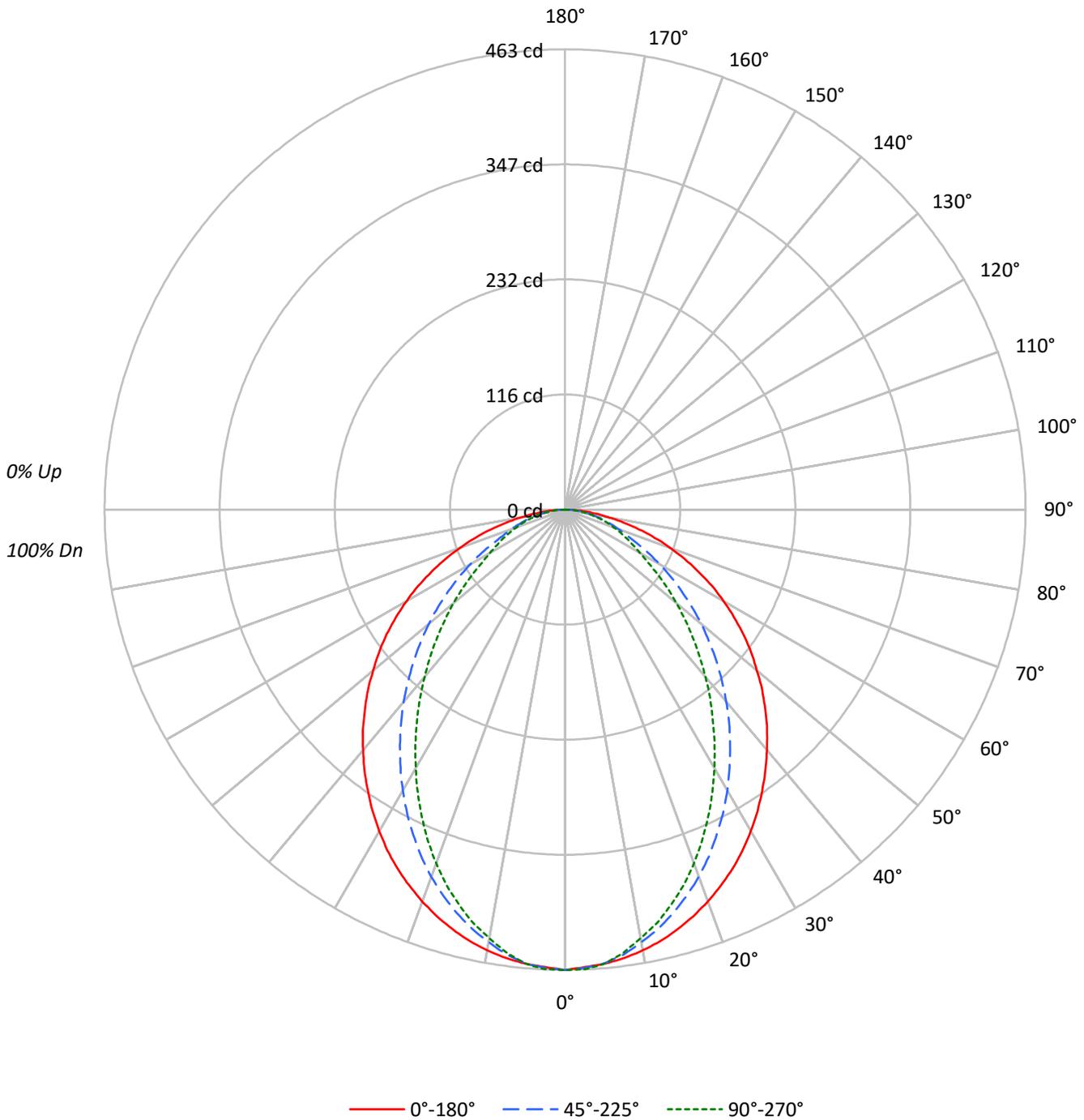
Lumens per Lamp: N/A
Luminaire Lumens: 981.4 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3274	3274	3274
5°	3254	3252	3254
10°	3232	3173	3143
15°	3200	3076	3013
20°	3157	2957	2850
25°	3109	2816	2658
30°	3048	2663	2451
35°	2982	2497	2238
40°	2914	2326	2027
45°	2844	2147	1817
50°	2768	1964	1608
55°	2699	1764	1398
60°	2603	1550	1229
65°	2474	1315	1142
70°	2323	1176	1069
75°	2100	1084	1008
80°	1824	981	940
85°	1428	868	868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2844 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	4.4
10°-20°	119.0	12.1
20°-30°	168.0	17.1
30°-40°	185.0	18.8
40°-50°	172.6	17.6
50°-60°	137.8	14.0
60°-70°	92.7	9.4
70°-80°	49.4	5.0
80°-90°	13.7	1.4
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°	330.3	33.7
0°-40°	515.3	52.5
0°-60°	825.7	84.1
0°-90°	981.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	981.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	463	463	463	463	463	
5°	459	462	458	457	459	44
15°	437	435	420	413	412	123
25°	399	386	361	345	341	183
35°	346	325	289	266	259	216
45°	284	258	215	189	182	220
55°	219	186	143	120	113	195
65°	148	116	79	70	68	147
75°	77	51	40	37	37	82
85°	18	12	11	11	11	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	463.1	463.1	463.1	463.1	463.1
2.5°	460.7	464.5	461.3	462.0	462.7
5°	458.6	462.4	458.2	456.9	458.6
7.5°	455.1	458.2	451.3	448.2	449.6
10°	450.3	452.4	442.0	437.9	437.9
12.5°	444.5	444.5	432.0	426.2	426.2
15°	437.2	434.8	420.3	413.1	411.7
17.5°	428.9	424.5	407.2	397.9	396.2
20°	419.6	412.4	393.1	381.0	378.9
22.5°	409.3	400.0	377.6	362.7	360.3
25°	398.6	386.5	361.0	345.1	340.7
27.5°	386.5	372.0	344.1	326.2	320.7
30°	373.4	356.9	326.2	306.2	300.3
32.5°	360.0	341.4	307.9	286.5	280.0
35°	345.5	325.2	289.3	266.5	259.3
37.5°	331.0	308.9	271.0	247.2	239.6
40°	315.8	291.7	252.1	227.6	219.6
42.5°	300.7	274.8	233.4	208.6	200.3
45°	284.5	257.6	214.8	188.6	181.7
47.5°	268.9	240.0	196.5	171.0	163.4
50°	251.7	221.7	178.6	153.1	146.2
52.5°	235.8	203.8	160.7	136.9	129.6
55°	219.0	185.8	143.1	120.3	113.4
57.5°	201.4	167.9	126.2	104.8	98.3
60°	184.1	150.0	109.6	90.0	86.9
62.5°	166.5	133.1	94.1	79.0	76.9
65°	147.9	115.5	78.6	69.7	68.3
67.5°	130.3	98.6	66.2	61.0	59.7
70°	112.4	81.7	56.9	52.4	51.7
72.5°	94.8	65.5	47.9	44.8	44.1
75°	76.9	51.0	39.7	37.2	36.9
77.5°	60.3	38.3	31.4	30.3	29.7
80°	44.8	28.6	24.1	23.4	23.1
82.5°	30.7	19.7	17.2	17.2	16.6
85°	17.6	12.1	10.7	11.0	10.7
87.5°	6.6	5.2	4.8	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)