

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: P1056424

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

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056424
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-S375D927-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

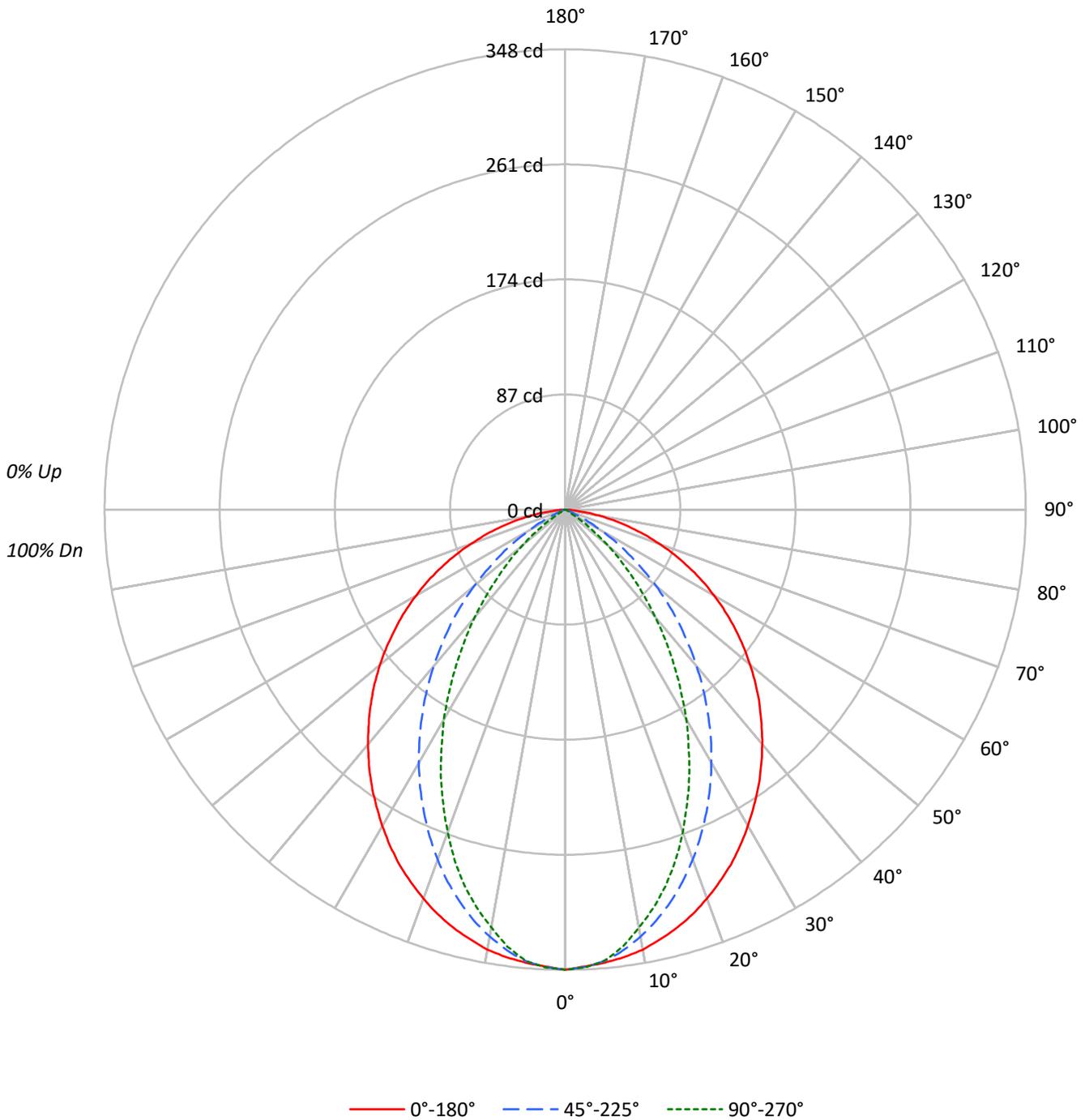
Lumens per Lamp: N/A
Luminaire Lumens: 563.9 lumens
Efficiency: N/A
Efficacy: 44.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.89 / 1.07
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2459	2459	2459
5°	2440	2432	2430
10°	2426	2354	2304
15°	2395	2248	2152
20°	2355	2119	1953
25°	2310	1969	1732
30°	2255	1804	1497
35°	2199	1622	1238
40°	2138	1426	980
45°	2075	1217	710
50°	2006	982	459
55°	1929	719	205
60°	1838	444	58
65°	1725	162	35
70°	1561	58	14
75°	1357	19	8
80°	1038	12	0
85°	479	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2075 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	5.7
10°-20°	86.8	15.4
20°-30°	117.4	20.8
30°-40°	120.6	21.4
40°-50°	99.9	17.7
50°-60°	64.1	11.4
60°-70°	31.0	5.5
70°-80°	10.5	1.9
80°-90°	1.3	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°	236.5	41.9
0°-40°	357.0	63.3
0°-60°	521.1	92.4
0°-90°	563.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	563.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	348	348	348	348	348	
5°	344	346	343	341	342	33
15°	327	323	307	296	294	92
25°	296	282	252	230	222	136
35°	255	230	188	155	143	159
45°	208	173	122	84	71	160
55°	156	115	58	26	17	140
65°	103	57	10	3	2	102
75°	50	11	1	0	0	53
85°	6	0	0	0	0	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	347.9	347.9	347.9	347.9	347.9
2.5°	345.8	348.6	346.2	345.8	346.5
5°	343.8	346.5	342.7	340.7	342.4
7.5°	341.4	342.7	336.2	332.7	333.4
10°	337.9	337.6	327.9	322.0	321.0
12.5°	332.7	331.0	318.3	310.0	308.3
15°	327.2	323.1	307.2	296.5	294.1
17.5°	320.7	314.1	295.2	281.4	277.9
20°	313.1	304.1	281.7	264.8	259.6
22.5°	304.8	293.4	267.6	247.6	240.7
25°	296.2	281.7	252.4	229.6	222.1
27.5°	286.5	269.6	237.2	211.4	202.1
30°	276.2	256.9	221.0	192.7	183.4
32.5°	265.5	244.1	204.8	174.1	162.7
35°	254.8	230.3	187.9	155.2	143.4
37.5°	243.4	216.5	171.4	137.2	124.5
40°	231.7	202.4	154.5	118.6	106.2
42.5°	219.6	187.9	137.6	101.0	88.3
45°	207.6	173.4	121.7	84.1	71.0
47.5°	195.2	158.6	105.2	67.6	56.2
50°	182.4	144.1	89.3	52.8	41.7
52.5°	169.6	129.3	73.1	38.3	28.3
55°	156.5	114.8	58.3	25.5	16.6
57.5°	143.4	100.0	44.5	14.1	6.2
60°	130.0	85.9	31.4	4.8	4.1
62.5°	116.9	70.7	19.7	3.8	3.1
65°	103.1	56.9	9.7	2.8	2.1
67.5°	89.6	43.8	4.1	1.7	1.0
70°	75.5	31.7	2.8	1.0	0.7
72.5°	62.4	20.3	1.7	0.7	0.3
75°	49.7	10.7	0.7	0.3	0.3
77.5°	37.2	4.5	0.3	0.3	0.3
80°	25.5	2.1	0.3	0.3	0.0
82.5°	15.2	0.7	0.3	0.3	0.0
85°	5.9	0.0	0.0	0.0	0.0
87.5°	0.3	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)