

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: P1056430

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

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056430
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-S375D935-X4F0-XX-UDD-FLL-B
Description: DEFINE 5, BLACK 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

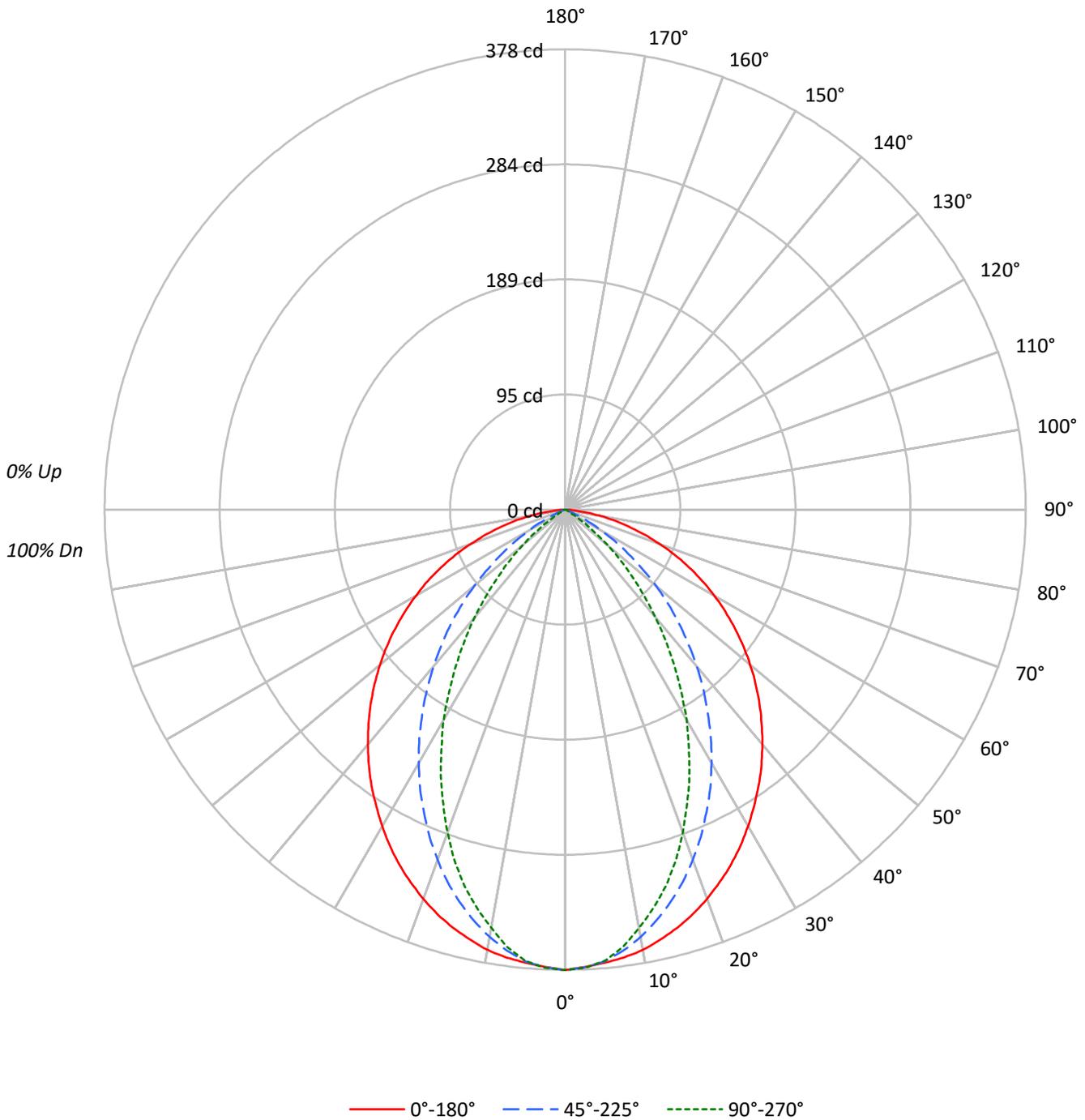
Lumens per Lamp: N/A
Luminaire Lumens: 612.9 lumens
Efficiency: N/A
Efficacy: 48.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.89 / 1.07
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1056430

CATALOG NUMBER: S125R3DR-S375D935-X4F0-XX-UDD-FLL-B

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°	2673	2673	2673
5°	2651	2643	2641
10°	2637	2558	2505
15°	2603	2444	2340
20°	2560	2304	2123
25°	2511	2140	1882
30°	2451	1961	1628
35°	2390	1762	1345
40°	2324	1549	1065
45°	2255	1323	772
50°	2180	1068	498
55°	2096	780	222
60°	1998	482	64
65°	1875	176	37
70°	1697	62	14
75°	1475	19	11
80°	1128	16	0
85°	519	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2255 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	5.7
10°-20°	94.3	15.4
20°-30°	127.6	20.8
30°-40°	131.1	21.4
40°-50°	108.6	17.7
50°-60°	69.7	11.4
60°-70°	33.7	5.5
70°-80°	11.4	1.9
80°-90°	1.5	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°	257.0	41.9
0°-40°	388.1	63.3
0°-60°	566.3	92.4
0°-90°	612.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	612.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	378	378	378	378	378	
5°	374	377	372	370	372	35
15°	356	351	334	322	320	100
25°	322	306	274	250	241	148
35°	277	250	204	169	156	173
45°	226	188	132	91	77	174
55°	170	125	63	28	18	152
65°	112	62	10	3	2	111
75°	54	12	1	0	0	57
85°	6	0	0	0	0	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	378.1	378.1	378.1	378.1	378.1
2.5°	375.9	378.9	376.3	375.9	376.6
5°	373.6	376.6	372.5	370.3	372.1
7.5°	371.0	372.5	365.4	361.6	362.4
10°	367.3	366.9	356.4	350.0	348.9
12.5°	361.6	359.8	345.9	336.9	335.0
15°	355.6	351.1	333.9	322.3	319.7
17.5°	348.5	341.4	320.8	305.8	302.1
20°	340.3	330.5	306.2	287.8	282.2
22.5°	331.3	318.9	290.8	269.1	261.6
25°	321.9	306.2	274.3	249.6	241.3
27.5°	311.4	293.1	257.8	229.7	219.6
30°	300.2	279.2	240.2	209.5	199.4
32.5°	288.6	265.3	222.6	189.3	176.9
35°	276.9	250.3	204.2	168.6	155.9
37.5°	264.6	235.3	186.3	149.2	135.3
40°	251.8	220.0	167.9	128.9	115.4
42.5°	238.7	204.2	149.5	109.8	95.9
45°	225.6	188.5	132.3	91.4	77.2
47.5°	212.1	172.4	114.3	73.5	61.1
50°	198.2	156.6	97.1	57.3	45.3
52.5°	184.4	140.5	79.4	41.6	30.7
55°	170.1	124.8	63.3	27.7	18.0
57.5°	155.9	108.7	48.3	15.4	6.7
60°	141.3	93.3	34.1	5.2	4.5
62.5°	127.0	76.8	21.4	4.1	3.4
65°	112.1	61.8	10.5	3.0	2.2
67.5°	97.4	47.6	4.5	1.9	1.1
70°	82.1	34.5	3.0	1.1	0.7
72.5°	67.8	22.1	1.9	0.7	0.4
75°	54.0	11.6	0.7	0.4	0.4
77.5°	40.5	4.9	0.4	0.4	0.4
80°	27.7	2.2	0.4	0.4	0.0
82.5°	16.5	0.7	0.4	0.4	0.0
85°	6.4	0.0	0.0	0.0	0.0
87.5°	0.4	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)