

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: P1056376

Luminaire Tested: S125R3DR-S1090D935-X4F0-XX-UDD-FLL-B

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056376
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-S1090D935-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

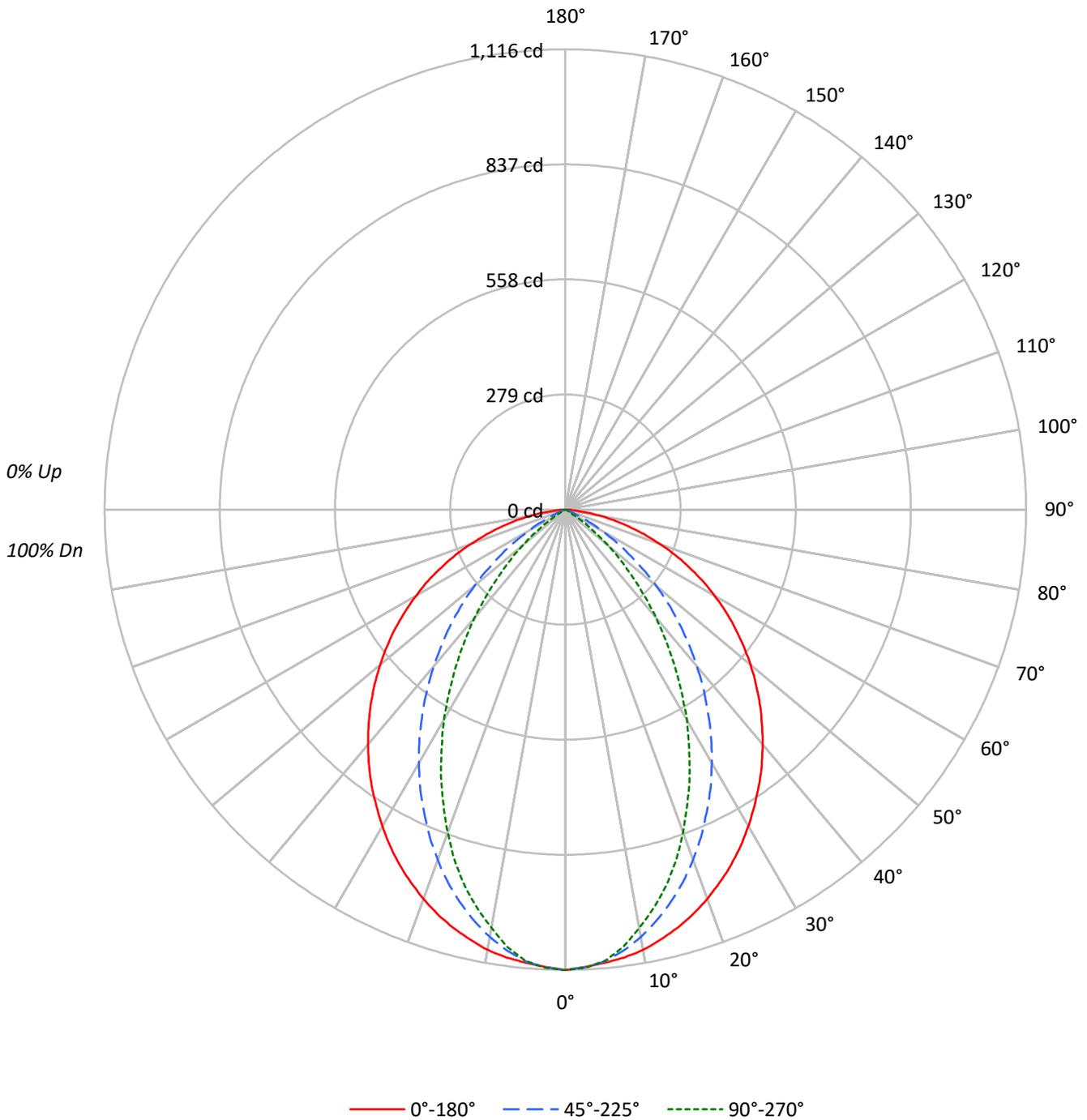
Lumens per Lamp: N/A
Luminaire Lumens: 1809.5 lumens
Efficiency: N/A
Efficacy: 52.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.89 / 1.07
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
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: P1056376

CATALOG NUMBER: S125R3DR-S1090D935-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°	7892	7892	7892
5°	7828	7805	7797
10°	7784	7553	7394
15°	7685	7215	6907
20°	7558	6801	6267
25°	7413	6317	5558
30°	7235	5789	4805
35°	7057	5204	3972
40°	6861	4575	3145
45°	6659	3905	2278
50°	6437	3152	1473
55°	6191	2305	654
60°	5897	1424	188
65°	5533	519	110
70°	5008	184	45
75°	4351	60	30
80°	3334	45	0
85°	1525	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6659 cd/sqm



TEST NUMBER: P1056376

CATALOG NUMBER: S125R3DR-S1090D935-X4F0-XX-UDD-FLL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	5.7
10°-20°	278.4	15.4
20°-30°	376.7	20.8
30°-40°	387.0	21.4
40°-50°	320.6	17.7
50°-60°	205.8	11.4
60°-70°	99.4	5.5
70°-80°	33.6	1.9
80°-90°	4.3	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°	758.8	41.9
0°-40°	1145.7	63.3
0°-60°	1672.1	92.4
0°-90°	1809.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1809.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1103	1112	1100	1093	1099	105
15°	1050	1037	986	952	944	296
25°	950	904	810	737	712	437
35°	818	739	603	498	460	511
45°	666	556	391	270	228	514
55°	502	368	187	82	53	449
65°	331	183	31	9	7	327
75°	159	34	2	1	1	169
85°	19	0	0	0	0	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1116.4	1116.4	1116.4	1116.4	1116.4
2.5°	1109.8	1118.6	1110.9	1109.8	1112.0
5°	1103.1	1112.0	1099.8	1093.2	1098.7
7.5°	1095.4	1099.8	1078.8	1067.7	1069.9
10°	1084.3	1083.2	1052.2	1033.4	1030.1
12.5°	1067.7	1062.2	1021.2	994.7	989.2
15°	1050.0	1036.7	985.8	951.5	943.8
17.5°	1029.0	1008.0	947.1	902.9	891.8
20°	1004.6	975.9	904.0	849.7	833.1
22.5°	978.1	941.6	858.6	794.4	772.3
25°	950.4	904.0	809.9	736.9	712.5
27.5°	919.5	865.2	761.2	678.2	648.4
30°	886.3	824.3	709.2	618.5	588.6
32.5°	852.0	783.4	657.2	558.8	522.2
35°	817.7	739.1	603.0	497.9	460.3
37.5°	781.1	694.8	549.9	440.4	399.4
40°	743.5	649.5	495.7	380.6	340.8
42.5°	704.8	603.0	441.5	324.2	283.2
45°	666.1	556.5	390.6	270.0	227.9
47.5°	626.2	509.0	337.5	216.9	180.3
50°	585.3	462.5	286.6	169.3	133.9
52.5°	544.4	414.9	234.6	122.8	90.7
55°	502.3	368.4	187.0	81.9	53.1
57.5°	460.3	320.9	142.7	45.4	19.9
60°	417.1	275.5	100.7	15.5	13.3
62.5°	375.1	226.8	63.1	12.2	10.0
65°	330.8	182.6	31.0	8.9	6.6
67.5°	287.7	140.5	13.3	5.5	3.3
70°	242.3	101.8	8.9	3.3	2.2
72.5°	200.3	65.3	5.5	2.2	1.1
75°	159.3	34.3	2.2	1.1	1.1
77.5°	119.5	14.4	1.1	1.1	1.1
80°	81.9	6.6	1.1	1.1	0.0
82.5°	48.7	2.2	1.1	1.1	0.0
85°	18.8	0.0	0.0	0.0	0.0
87.5°	1.1	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)