

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: P1056382

Luminaire Tested: S125R3DR-S1090D950-X4F0-XX-UDD-FLL-B

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056382
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-S1090D950-X4F0-XX-UDD-FLL-B
Description: DEFINE 5, BLACK 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

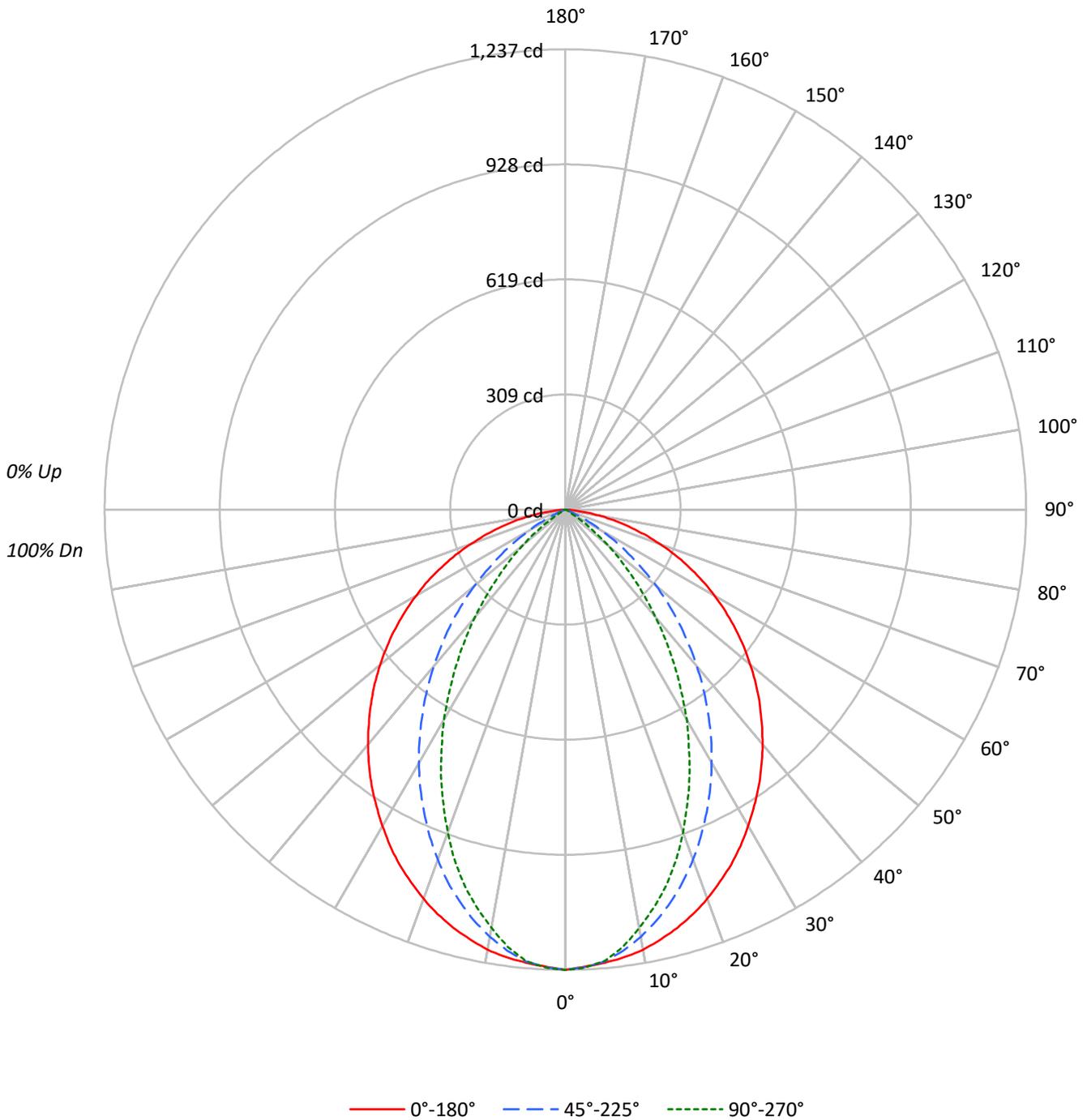
Lumens per Lamp: N/A
Luminaire Lumens: 2004.9 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.89 / 1.07
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	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°	8745	8745	8745
5°	8674	8648	8639
10°	8624	8369	8193
15°	8515	7994	7653
20°	8375	7535	6945
25°	8214	7000	6158
30°	8016	6414	5324
35°	7819	5766	4401
40°	7602	5068	3485
45°	7378	4327	2524
50°	7132	3492	1631
55°	6860	2554	725
60°	6535	1578	208
65°	6132	574	124
70°	5550	203	52
75°	4821	68	33
80°	3692	49	0
85°	1687	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7378 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	5.7
10°-20°	308.5	15.4
20°-30°	417.4	20.8
30°-40°	428.7	21.4
40°-50°	355.2	17.7
50°-60°	228.0	11.4
60°-70°	110.2	5.5
70°-80°	37.3	1.9
80°-90°	4.8	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°	840.8	41.9
0°-40°	1269.5	63.3
0°-60°	1852.7	92.4
0°-90°	2004.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2004.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1237	1237	1237	1237	1237	
5°	1222	1232	1219	1211	1217	116
15°	1163	1149	1092	1054	1046	328
25°	1053	1002	897	816	790	485
35°	906	819	668	552	510	566
45°	738	617	433	299	252	569
55°	557	408	207	91	59	497
65°	367	202	34	10	7	363
75°	176	38	2	1	1	187
85°	21	0	0	0	0	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1237.0	1237.0	1237.0	1237.0	1237.0
2.5°	1229.6	1239.4	1230.9	1229.6	1232.1
5°	1222.3	1232.1	1218.6	1211.2	1217.4
7.5°	1213.7	1218.6	1195.3	1183.0	1185.5
10°	1201.4	1200.2	1165.9	1145.0	1141.4
12.5°	1183.0	1176.9	1131.6	1102.1	1096.0
15°	1163.4	1148.7	1092.3	1054.3	1045.7
17.5°	1140.1	1116.8	1049.4	1000.4	988.1
20°	1113.2	1081.3	1001.6	941.5	923.1
22.5°	1083.7	1043.3	951.3	880.2	855.7
25°	1053.1	1001.6	897.4	816.5	789.5
27.5°	1018.8	958.7	843.5	751.5	718.4
30°	982.0	913.3	785.8	685.3	652.2
32.5°	944.0	868.0	728.2	619.1	578.7
35°	906.0	818.9	668.1	551.7	510.0
37.5°	865.5	769.9	609.3	487.9	442.6
40°	823.8	719.6	549.2	421.7	377.6
42.5°	780.9	668.1	489.2	359.2	313.8
45°	738.0	616.7	432.8	299.1	252.5
47.5°	693.9	563.9	373.9	240.3	199.8
50°	648.5	512.4	317.5	187.6	148.3
52.5°	603.2	459.7	259.9	136.1	100.5
55°	556.6	408.2	207.2	90.7	58.8
57.5°	510.0	355.5	158.1	50.3	22.1
60°	462.2	305.3	111.6	17.2	14.7
62.5°	415.6	251.3	69.9	13.5	11.0
65°	366.6	202.3	34.3	9.8	7.4
67.5°	318.7	155.7	14.7	6.1	3.7
70°	268.5	112.8	9.8	3.7	2.5
72.5°	221.9	72.3	6.1	2.5	1.2
75°	176.5	38.0	2.5	1.2	1.2
77.5°	132.4	15.9	1.2	1.2	1.2
80°	90.7	7.4	1.2	1.2	0.0
82.5°	53.9	2.5	1.2	1.2	0.0
85°	20.8	0.0	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)