

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: P1056372

Luminaire Tested: S125R3DR-S1090D927-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056372
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-S1090D927-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

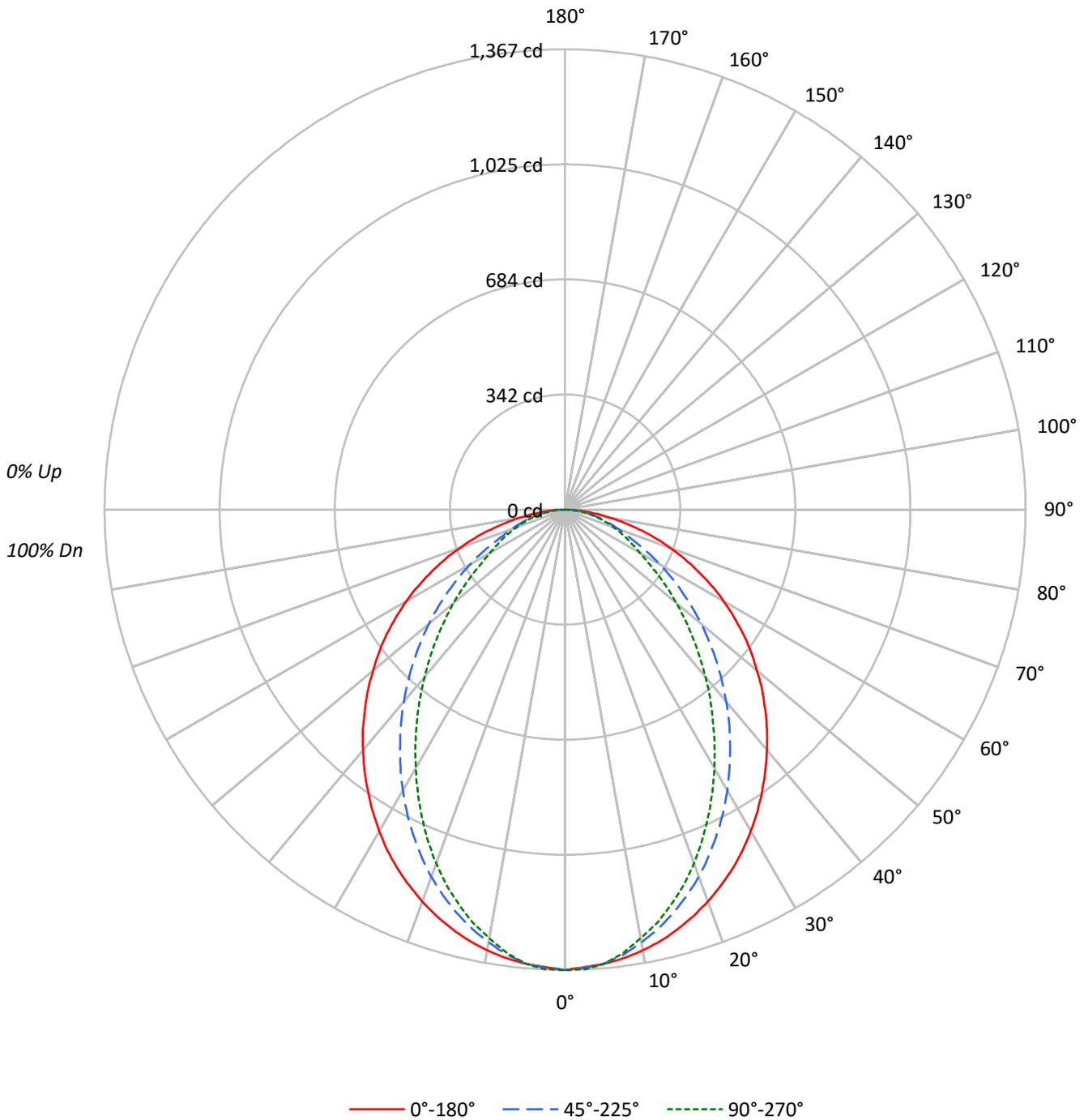
Lumens per Lamp: N/A
Luminaire Lumens: 2897.7 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	9665	9665	9665
5°	9608	9601	9608
10°	9544	9369	9281
15°	9447	9082	8896
20°	9320	8730	8417
25°	9179	8314	7845
30°	9000	7861	7238
35°	8803	7371	6606
40°	8605	6868	5985
45°	8397	6340	5364
50°	8173	5799	4747
55°	7967	5207	4128
60°	7686	4577	3627
65°	7305	3882	3372
70°	6860	3472	3156
75°	6200	3198	2974
80°	5386	2903	2776
85°	4210	2563	2563

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8397 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	4.4
10°-20°	351.2	12.1
20°-30°	496.1	17.1
30°-40°	546.2	18.8
40°-50°	509.5	17.6
50°-60°	406.7	14.0
60°-70°	273.7	9.4
70°-80°	145.8	5.0
80°-90°	40.5	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°	975.3	33.7
0°-40°	1521.5	52.5
0°-60°	2437.7	84.1
0°-90°	2897.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2897.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1367	1367	1367	1367	1367	
5°	1354	1365	1353	1349	1354	128
15°	1291	1284	1241	1220	1216	364
25°	1177	1141	1066	1019	1006	542
35°	1020	960	854	787	766	638
45°	840	760	634	557	536	648
55°	646	549	422	355	335	577
65°	437	341	232	206	202	433
75°	227	151	117	110	109	242
85°	52	36	32	33	32	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1367.2	1367.2	1367.2	1367.2	1367.2
2.5°	1360.1	1371.3	1362.1	1364.1	1366.2
5°	1353.9	1365.1	1352.9	1348.9	1353.9
7.5°	1343.8	1352.9	1332.6	1323.4	1327.5
10°	1329.5	1335.6	1305.1	1292.9	1292.9
12.5°	1312.2	1312.2	1275.6	1258.3	1258.3
15°	1290.8	1283.7	1240.9	1219.6	1215.5
17.5°	1266.4	1253.2	1202.3	1174.8	1169.7
20°	1238.9	1217.5	1160.5	1124.9	1118.8
22.5°	1208.4	1180.9	1114.7	1070.9	1063.8
25°	1176.8	1141.2	1065.9	1019.0	1005.8
27.5°	1141.2	1098.4	1016.0	963.0	946.7
30°	1102.5	1053.6	963.0	904.0	886.7
32.5°	1062.8	1007.8	909.1	846.0	826.6
35°	1020.0	960.0	854.1	786.9	765.5
37.5°	977.3	912.1	800.2	729.9	707.5
40°	932.5	861.2	744.2	671.9	648.5
42.5°	887.7	811.3	689.2	615.9	591.5
45°	839.9	760.4	634.2	556.8	536.5
47.5°	794.0	708.5	580.3	504.9	482.5
50°	743.1	654.6	527.3	452.0	431.6
52.5°	696.3	601.6	474.4	404.1	382.8
55°	646.4	548.7	422.5	355.3	334.9
57.5°	594.5	495.8	372.6	309.5	290.1
60°	543.6	442.8	323.7	265.7	256.5
62.5°	491.7	392.9	277.9	233.1	227.0
65°	436.7	341.0	232.1	205.6	201.6
67.5°	384.8	291.1	195.5	180.2	176.1
70°	331.9	241.3	168.0	154.7	152.7
72.5°	280.0	193.4	141.5	132.3	130.3
75°	227.0	150.7	117.1	109.9	108.9
77.5°	178.2	113.0	92.6	89.6	87.5
80°	132.3	84.5	71.3	69.2	68.2
82.5°	90.6	58.0	50.9	50.9	48.9
85°	51.9	35.6	31.6	32.6	31.6
87.5°	19.3	15.3	14.3	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)