

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: P1056375

Luminaire Tested: S125R3DR-S1090D930-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056375
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-S1090D930-X4F0-XX-UDD-FLL-W
Description: DEFINE 5, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

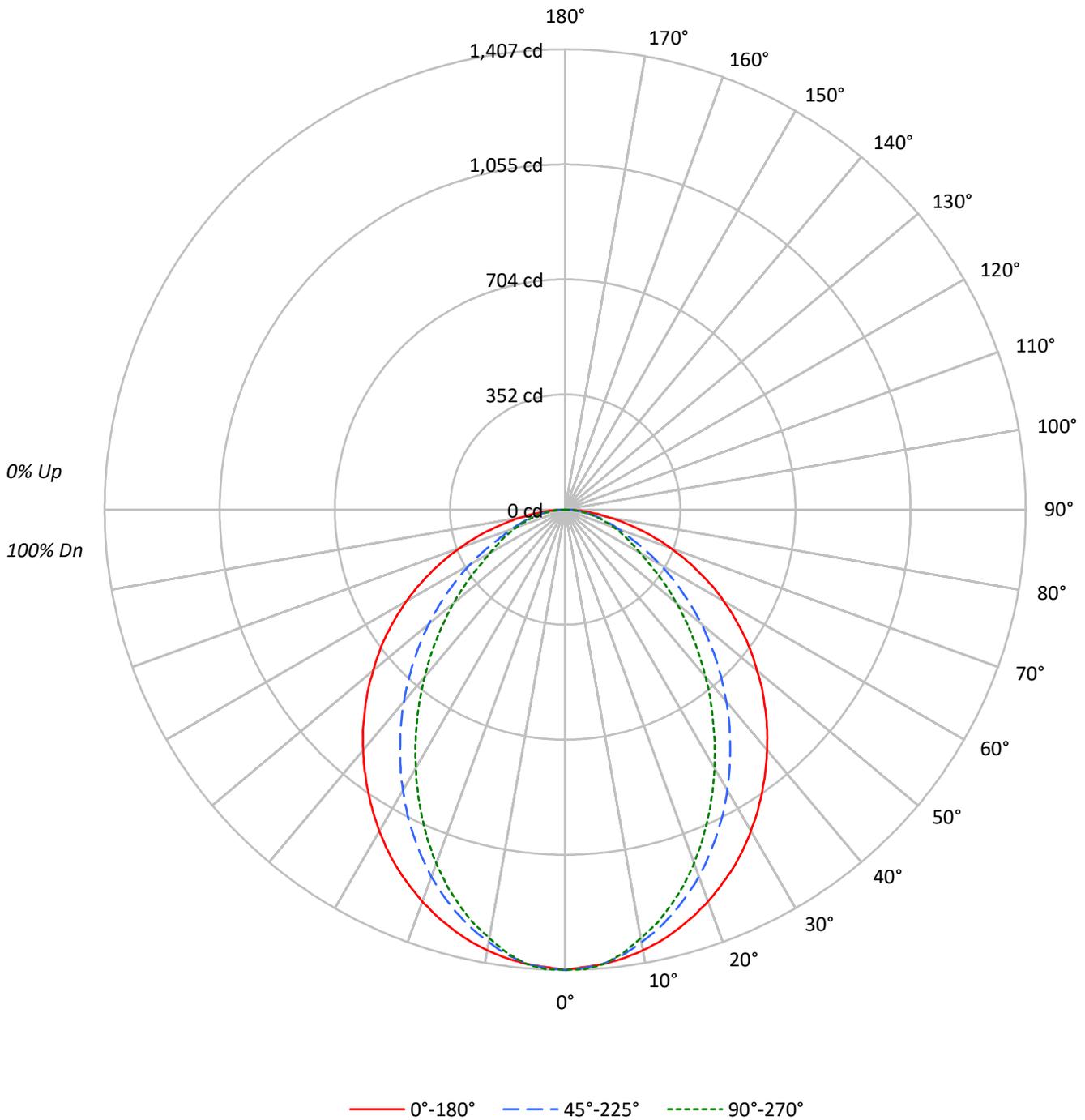
Lumens per Lamp: N/A
Luminaire Lumens: 2982.3 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	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	30	42	35	30	41	35	30	40	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9947	9947	9947
5°	9889	9881	9889
10°	9822	9642	9552
15°	9723	9347	9156
20°	9593	8986	8662
25°	9448	8557	8074
30°	9263	8090	7450
35°	9060	7586	6800
40°	8856	7068	6159
45°	8642	6525	5520
50°	8411	5969	4885
55°	8200	5359	4248
60°	7911	4711	3733
65°	7519	3996	3469
70°	7061	3574	3249
75°	6381	3291	3062
80°	5545	2984	2858
85°	4331	2636	2636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8642 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	4.4
10°-20°	361.5	12.1
20°-30°	510.6	17.1
30°-40°	562.1	18.8
40°-50°	524.4	17.6
50°-60°	418.6	14.0
60°-70°	281.7	9.4
70°-80°	150.0	5.0
80°-90°	41.7	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°	1003.8	33.7
0°-40°	1565.9	52.5
0°-60°	2508.8	84.1
0°-90°	2982.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2982.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1394	1405	1392	1388	1394	132
15°	1328	1321	1277	1255	1251	375
25°	1211	1174	1097	1049	1035	558
35°	1050	988	879	810	788	657
45°	864	783	653	573	552	667
55°	665	565	435	366	345	594
65°	450	351	239	212	207	446
75°	234	155	120	113	112	249
85°	53	37	32	34	32	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1407.1	1407.1	1407.1	1407.1	1407.1
2.5°	1399.7	1411.3	1401.8	1403.9	1406.0
5°	1393.5	1405.0	1392.4	1388.2	1393.5
7.5°	1383.0	1392.4	1371.5	1362.0	1366.2
10°	1368.3	1374.6	1343.2	1330.6	1330.6
12.5°	1350.5	1350.5	1312.8	1295.0	1295.0
15°	1328.5	1321.2	1277.2	1255.2	1251.0
17.5°	1303.4	1289.7	1237.3	1209.1	1203.8
20°	1275.1	1253.1	1194.4	1157.7	1151.4
22.5°	1243.6	1215.3	1147.2	1102.2	1094.9
25°	1211.2	1174.5	1097.0	1048.8	1035.1
27.5°	1174.5	1130.5	1045.6	991.1	974.4
30°	1134.7	1084.4	991.1	930.4	912.6
32.5°	1093.8	1037.2	935.6	870.6	850.7
35°	1049.8	988.0	879.0	809.9	787.9
37.5°	1005.8	938.7	823.5	751.2	728.2
40°	959.7	886.4	765.9	691.5	667.4
42.5°	913.6	835.0	709.3	633.9	608.7
45°	864.4	782.6	652.7	573.1	552.1
47.5°	817.2	729.2	597.2	519.7	496.6
50°	764.8	673.7	542.7	465.2	444.2
52.5°	716.6	619.2	488.2	415.9	393.9
55°	665.3	564.7	434.8	365.7	344.7
57.5°	611.9	510.2	383.5	318.5	298.6
60°	559.5	455.8	333.2	273.5	264.0
62.5°	506.0	404.4	286.0	239.9	233.6
65°	449.5	351.0	238.9	211.6	207.4
67.5°	396.0	299.6	201.2	185.4	181.3
70°	341.6	248.3	172.9	159.3	157.2
72.5°	288.1	199.1	145.6	136.2	134.1
75°	233.6	155.1	120.5	113.2	112.1
77.5°	183.3	116.3	95.3	92.2	90.1
80°	136.2	87.0	73.3	71.2	70.2
82.5°	93.2	59.7	52.4	52.4	50.3
85°	53.4	36.7	32.5	33.5	32.5
87.5°	19.9	15.7	14.7	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)