

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: P1056360

Luminaire Tested: S125R3DR-S1090D830-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056360
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-S1090D830-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, 80 CRI LEDS
Ballast/Driver: -

Summary

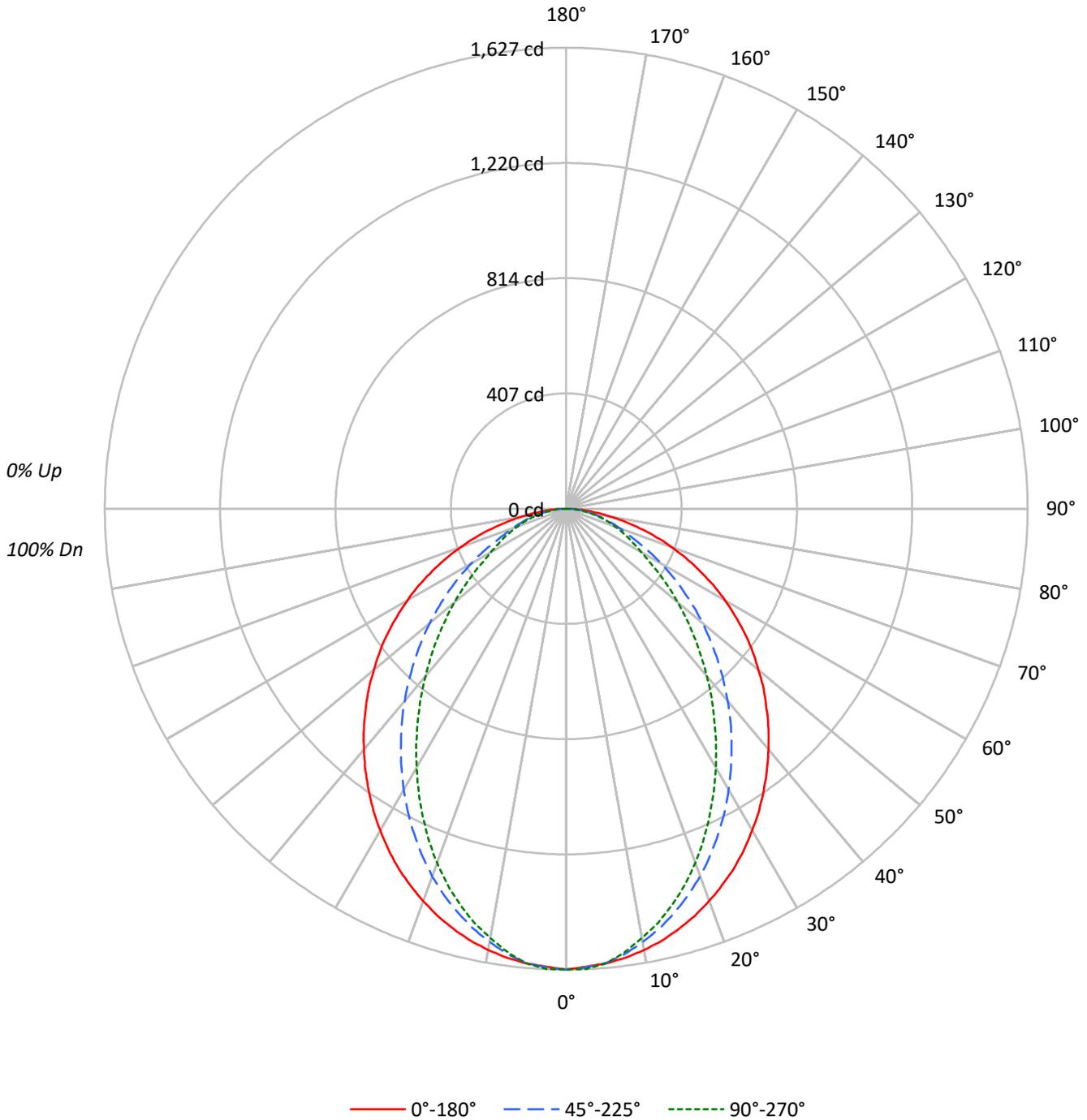
Lumens per Lamp: N/A
Luminaire Lumens: 3447.7 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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			100	
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86			86	
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73			73	
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63			63	
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55			55	
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48			48	
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43			43	
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38			38	
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34			34	
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31			31	
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28			28	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11500	11500	11500
5°	11431	11423	11431
10°	11356	11147	11043
15°	11240	10806	10584
20°	11090	10388	10014
25°	10922	9892	9334
30°	10708	9353	8612
35°	10474	8770	7860
40°	10239	8171	7121
45°	9991	7544	6381
50°	9724	6900	5649
55°	9479	6196	4912
60°	9145	5446	4315
65°	8692	4620	4011
70°	8162	4132	3756
75°	7377	3805	3540
80°	6412	3452	3306
85°	5013	3042	3042

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9991 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.2	4.4
10°-20°	417.9	12.1
20°-30°	590.3	17.1
30°-40°	649.9	18.8
40°-50°	606.2	17.6
50°-60°	483.9	14.0
60°-70°	325.7	9.4
70°-80°	173.5	5.0
80°-90°	48.2	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°	1160.4	33.7
0°-40°	1810.3	52.5
0°-60°	2900.4	84.1
0°-90°	3447.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3447.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1627	1627	1627	1627	1627	
5°	1611	1624	1610	1605	1611	153
15°	1536	1527	1476	1451	1446	433
25°	1400	1358	1268	1212	1197	645
35°	1214	1142	1016	936	911	759
45°	999	905	755	662	638	772
55°	769	653	503	423	398	687
65°	520	406	276	245	240	515
75°	270	179	139	131	130	288
85°	62	42	38	39	38	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1626.7	1626.7	1626.7	1626.7	1626.7
2.5°	1618.2	1631.5	1620.6	1623.0	1625.5
5°	1610.9	1624.3	1609.7	1604.9	1610.9
7.5°	1598.8	1609.7	1585.5	1574.6	1579.4
10°	1581.9	1589.1	1552.8	1538.3	1538.3
12.5°	1561.3	1561.3	1517.7	1497.1	1497.1
15°	1535.8	1527.4	1476.5	1451.1	1446.2
17.5°	1506.8	1491.0	1430.5	1397.8	1391.7
20°	1474.1	1448.6	1380.8	1338.4	1331.1
22.5°	1437.7	1405.0	1326.3	1274.2	1265.7
25°	1400.2	1357.8	1268.2	1212.4	1196.7
27.5°	1357.8	1306.9	1208.8	1145.8	1126.4
30°	1311.8	1253.6	1145.8	1075.6	1055.0
32.5°	1264.5	1199.1	1081.6	1006.5	983.5
35°	1213.7	1142.2	1016.2	936.3	910.8
37.5°	1162.8	1085.3	952.0	868.5	841.8
40°	1109.5	1024.7	885.4	799.4	771.6
42.5°	1056.2	965.3	820.0	732.8	703.7
45°	999.3	904.8	754.6	662.5	638.3
47.5°	944.8	843.0	690.4	600.8	574.1
50°	884.2	778.8	627.4	537.8	513.6
52.5°	828.5	715.8	564.4	480.9	455.4
55°	769.1	652.9	502.7	422.7	398.5
57.5°	707.4	589.9	443.3	368.2	345.2
60°	646.8	526.9	385.2	316.1	305.2
62.5°	585.0	467.5	330.7	277.4	270.1
65°	519.6	405.8	276.2	244.7	239.8
67.5°	457.8	346.4	232.6	214.4	209.5
70°	394.9	287.1	199.9	184.1	181.7
72.5°	333.1	230.1	168.4	157.5	155.0
75°	270.1	179.3	139.3	130.8	129.6
77.5°	212.0	134.4	110.2	106.6	104.2
80°	157.5	100.5	84.8	82.4	81.2
82.5°	107.8	69.0	60.6	60.6	58.1
85°	61.8	42.4	37.5	38.8	37.5
87.5°	23.0	18.2	17.0	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)