

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1217332

Luminaire Tested: S122DRP-S675D927-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217332  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2511-596-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DRP-S675D927-X4F0-XX-UDD-G-W  
Description: DEFINE 2, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

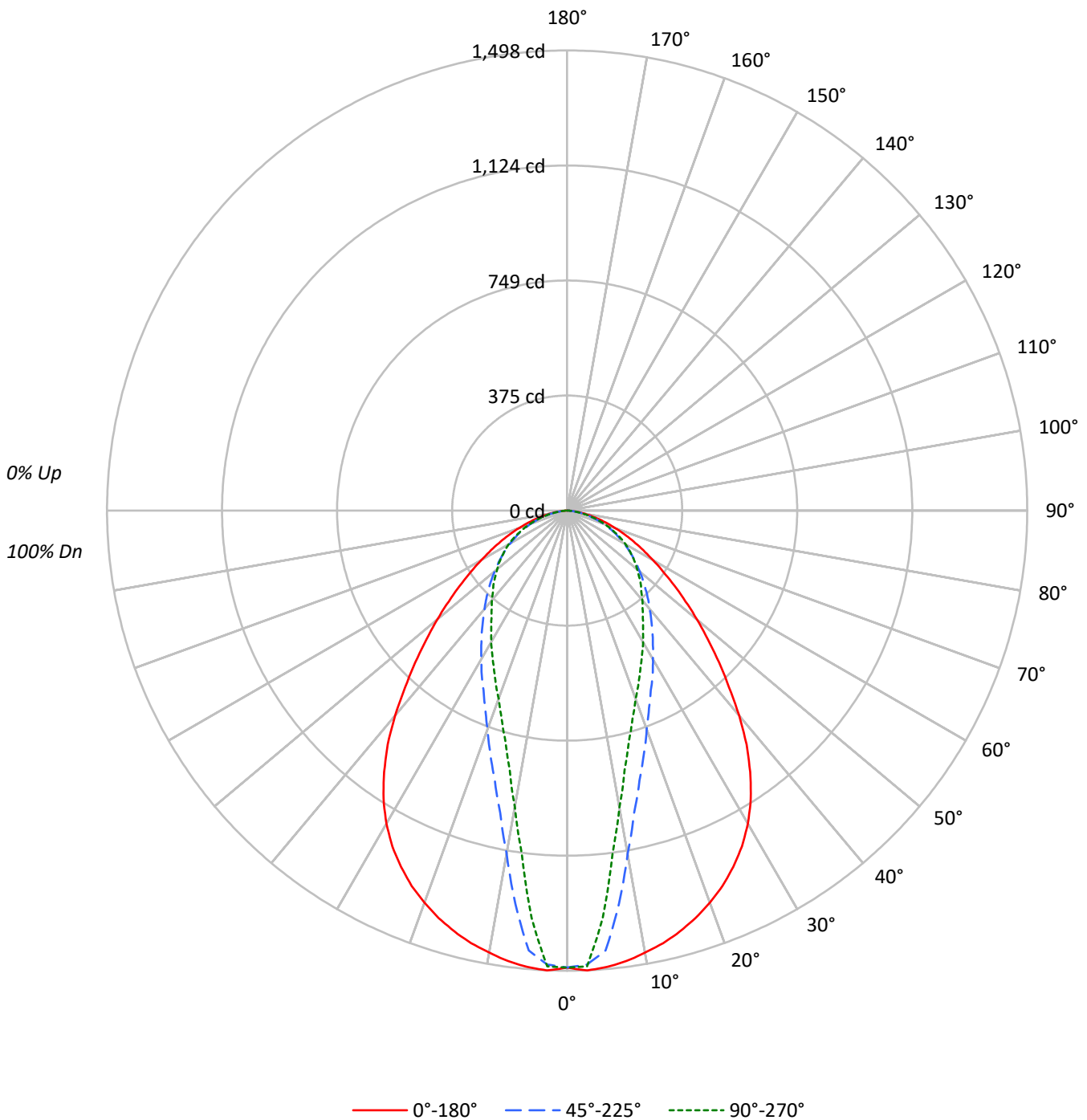
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1999.0 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 0.5 / 0.8  
Luminous Opening: Rectangular (W 0.15' x L: 3.9' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 26.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57
5	80	69	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50
6	75	63	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	43	37	33	31

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	28184	28184	28184
5°	28366	27333	25309
10°	28111	21826	18871
15°	27823	17839	15236
20°	27380	15271	13141
25°	26749	13481	11794
30°	25736	12223	10814
35°	24014	11199	9943
40°	21534	10345	9423
45°	18734	9667	9086
50°	16261	9081	8760
55°	14071	8588	8535
60°	12201	8086	8321
65°	10678	7585	7863
70°	9201	6963	7223
75°	7671	6134	6361
80°	6012	4997	4822
85°	3717	3195	3195

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18734 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.1	6.4
10°-20°	282.4	14.1
20°-30°	346.5	17.3
30°-40°	358.1	17.9
40°-50°	323.4	16.2
50°-60°	262.1	13.1
60°-70°	183.7	9.2
70°-80°	94.8	4.7
80°-90°	20.0	1.0
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°	757.0	37.9
0°-40°	1115.1	55.8
0°-60°	1700.6	85.1
0°-90°	1999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1999.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1488	1488	1488	1488	1488	
5°	1492	1488	1437	1373	1331	141
15°	1418	1196	910	811	777	400
25°	1280	850	645	584	564	588
35°	1038	628	484	443	430	645
45°	699	452	361	341	339	541
55°	426	310	260	257	258	384
65°	238	191	169	173	175	238
75°	105	90	84	86	87	113
85°	17	15	15	15	15	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1487.6	1487.6	1487.6	1487.6	1487.6
2.5°	1498.5	1493.0	1479.1	1492.3	1485.3
5°	1491.5	1488.4	1437.2	1372.7	1330.8
7.5°	1479.1	1468.2	1291.3	1169.4	1128.3
10°	1461.2	1406.9	1134.5	1021.2	980.9
12.5°	1442.6	1314.5	1008.0	901.7	865.2
15°	1418.5	1195.8	909.5	810.9	776.8
17.5°	1390.6	1092.6	831.1	736.4	709.3
20°	1358.0	1003.4	757.4	674.3	651.8
22.5°	1322.3	928.1	696.1	628.6	607.6
25°	1279.6	849.7	644.9	583.6	564.2
27.5°	1232.3	790.0	602.2	544.8	528.5
30°	1176.4	731.8	558.7	507.5	494.3
32.5°	1112.8	677.5	519.9	474.9	459.4
35°	1038.3	627.8	484.2	443.1	429.9
37.5°	959.1	578.9	450.1	414.4	403.5
40°	870.7	536.2	418.3	386.4	381.0
42.5°	779.9	493.5	389.6	362.4	357.7
45°	699.2	452.4	360.8	340.7	339.1
47.5°	620.8	415.2	334.5	318.9	317.4
50°	551.7	376.4	308.1	298.0	297.2
52.5°	485.8	342.2	283.2	277.8	279.4
55°	426.0	309.6	260.0	256.9	258.4
57.5°	370.9	279.4	236.7	237.5	239.8
60°	322.0	248.3	213.4	216.5	219.6
62.5°	279.4	219.6	190.9	195.6	198.7
65°	238.2	190.9	169.2	173.0	175.4
67.5°	201.8	163.7	147.4	152.1	152.9
70°	166.1	138.9	125.7	130.4	130.4
72.5°	135.0	113.3	104.8	107.1	107.9
75°	104.8	90.0	83.8	86.1	86.9
77.5°	79.2	68.3	63.6	66.0	65.2
80°	55.1	48.1	45.8	45.0	44.2
82.5°	34.1	30.3	27.9	28.7	27.9
85°	17.1	14.7	14.7	14.7	14.7
87.5°	5.4	5.4	5.4	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0

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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	20.10	21.60	20.46	21.91	22.23	18.60	20.10	18.96	20.41	20.72
	3H	21.68	23.03	22.06	23.36	23.72	20.31	21.66	20.69	21.98	22.35
	4H	22.21	23.47	22.61	23.82	24.20	20.89	22.15	21.29	22.50	22.88
	6H	22.54	23.70	22.95	24.07	24.46	21.24	22.40	21.65	22.77	23.16
	8H	22.61	23.72	23.04	24.11	24.51	21.31	22.42	21.74	22.81	23.21
	12H	22.64	23.70	23.07	24.08	24.51	21.34	22.40	21.77	22.79	23.22
4H	2H	20.41	21.67	20.81	22.02	22.40	19.16	20.42	19.56	20.77	21.15
	3H	22.19	23.24	22.60	23.64	24.04	21.07	22.12	21.48	22.52	22.92
	4H	22.82	23.76	23.25	24.18	24.62	21.77	22.71	22.20	23.13	23.57
	6H	23.25	24.07	23.71	24.52	24.98	22.22	23.04	22.68	23.48	23.94
	8H	23.36	24.12	23.82	24.57	25.04	22.32	23.09	22.79	23.53	24.00
	12H	23.41	24.09	23.89	24.57	25.04	22.38	23.06	22.86	23.54	24.01
8H	4H	22.97	23.73	23.43	24.18	24.64	22.01	22.77	22.47	23.22	23.69
	6H	23.47	24.11	23.97	24.60	25.07	22.55	23.18	23.04	23.67	24.15
	8H	23.62	24.19	24.14	24.70	25.18	22.70	23.26	23.21	23.77	24.26
	12H	23.71	24.21	24.22	24.70	25.27	22.79	23.29	23.30	23.78	24.35
12H	4H	22.97	23.65	23.45	24.13	24.60	22.02	22.70	22.50	23.18	23.65
	6H	23.48	24.04	23.99	24.55	25.04	22.57	23.13	23.08	23.64	24.13
	8H	23.66	24.16	24.17	24.65	25.22	22.76	23.26	23.27	23.75	24.32