

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: P1217334

Luminaire Tested: S122DRP-S675D935-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217334  
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-S675D935-X4F0-XX-UDD-G-W  
Description: DEFINE 2, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

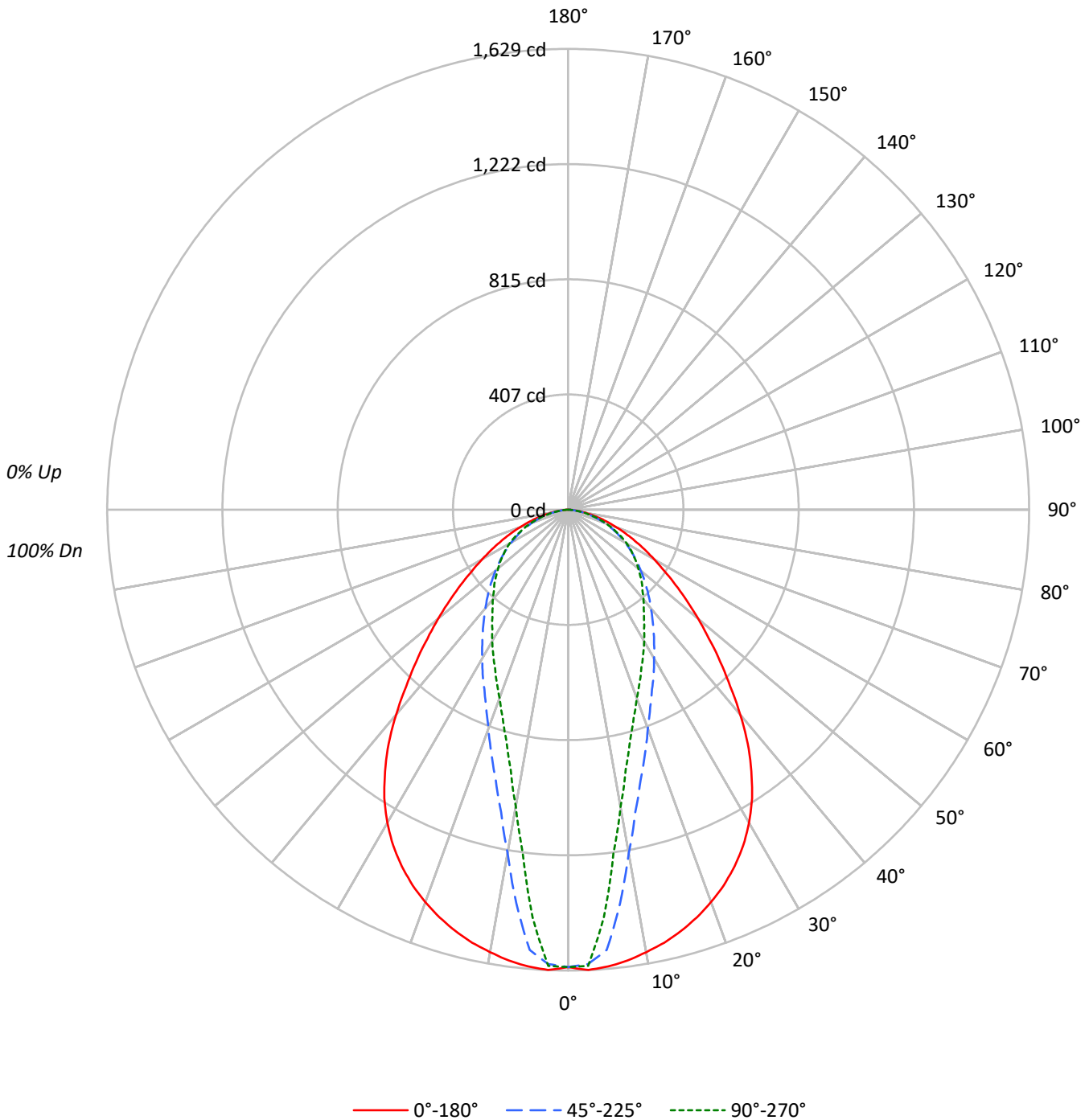
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2172.7 lumens  
Efficiency: N/A  
Efficacy: 82.3 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	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	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87					87			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75					75			
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65					65			
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57					57			
5	80	69	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50					50			
6	75	63	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45					45			
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41					41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37					37			
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34					34			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	43	37	33	31					31			

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

	0°	45°	90°
0°	30632	30632	30632
5°	30829	29706	27510
10°	30552	23723	20510
15°	30241	19389	16560
20°	29759	16597	14285
25°	29074	14652	12819
30°	27972	13286	11754
35°	26101	12173	10808
40°	23404	11243	10242
45°	20360	10508	9876
50°	17676	9868	9520
55°	15293	9331	9278
60°	13262	8787	9045
65°	11606	8244	8545
70°	9999	7567	7849
75°	8338	6669	6918
80°	6535	5433	5248
85°	4043	3478	3478

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20360 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.2	6.4
10°-20°	307.0	14.1
20°-30°	376.6	17.3
30°-40°	389.2	17.9
40°-50°	351.5	16.2
50°-60°	284.8	13.1
60°-70°	199.7	9.2
70°-80°	103.0	4.7
80°-90°	21.7	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°	822.8	37.9
0°-40°	1212.0	55.8
0°-60°	1848.3	85.1
0°-90°	2172.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2172.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1617	1617	1617	1617	1617	
5°	1621	1618	1562	1492	1446	154
15°	1542	1300	988	881	844	434
25°	1391	924	701	634	613	639
35°	1128	682	526	482	467	702
45°	760	492	392	370	369	588
55°	463	336	282	279	281	417
65°	259	208	184	188	191	259
75°	114	98	91	94	94	123
85°	19	16	16	16	16	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1616.8	1616.8	1616.8	1616.8	1616.8
2.5°	1628.6	1622.7	1607.5	1621.9	1614.3
5°	1621.0	1617.7	1562.0	1492.0	1446.5
7.5°	1607.5	1595.7	1403.4	1271.0	1226.3
10°	1588.1	1529.1	1233.1	1109.9	1066.1
12.5°	1567.9	1428.7	1095.6	980.0	940.4
15°	1541.8	1299.7	988.5	881.4	844.3
17.5°	1511.4	1187.5	903.3	800.4	770.9
20°	1476.0	1090.5	823.2	732.9	708.5
22.5°	1437.2	1008.7	756.5	683.2	660.4
25°	1390.8	923.5	700.9	634.2	613.2
27.5°	1339.3	858.6	654.5	592.1	574.4
30°	1278.6	795.3	607.3	551.6	537.3
32.5°	1209.5	736.3	565.1	516.2	499.3
35°	1128.5	682.3	526.3	481.6	467.3
37.5°	1042.5	629.2	489.2	450.4	438.6
40°	946.3	582.8	454.6	420.0	414.1
42.5°	847.6	536.4	423.4	393.9	388.8
45°	759.9	491.7	392.2	370.3	368.6
47.5°	674.7	451.2	363.5	346.6	345.0
50°	599.7	409.1	334.8	323.9	323.0
52.5°	528.0	371.9	307.8	301.9	303.6
55°	463.0	336.5	282.5	279.2	280.9
57.5°	403.2	303.6	257.2	258.1	260.6
60°	350.0	269.9	231.9	235.3	238.7
62.5°	303.6	238.7	207.5	212.5	215.9
65°	258.9	207.5	183.9	188.1	190.6
67.5°	219.3	178.0	160.2	165.3	166.2
70°	180.5	151.0	136.6	141.7	141.7
72.5°	146.8	123.1	113.9	116.4	117.2
75°	113.9	97.8	91.1	93.6	94.5
77.5°	86.0	74.2	69.2	71.7	70.8
80°	59.9	52.3	49.8	48.9	48.1
82.5°	37.1	32.9	30.4	31.2	30.4
85°	18.6	16.0	16.0	16.0	16.0
87.5°	5.9	5.9	5.9	5.9	5.9
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	20.39	21.89	20.75	22.20	22.51	18.89	20.38	19.25	20.70	21.01
	3H	21.97	23.32	22.35	23.65	24.01	20.60	21.94	20.98	22.27	22.63
	4H	22.50	23.76	22.90	24.11	24.49	21.18	22.44	21.58	22.79	23.17
	6H	22.82	23.99	23.24	24.36	24.75	21.53	22.69	21.94	23.06	23.45
	8H	22.90	24.01	23.33	24.40	24.80	21.60	22.71	22.03	23.10	23.50
	12H	22.93	23.99	23.36	24.37	24.80	21.63	22.69	22.06	23.08	23.51
4H	2H	20.70	21.96	21.10	22.31	22.69	19.45	20.71	19.85	21.06	21.44
	3H	22.48	23.53	22.89	23.93	24.33	21.36	22.41	21.77	22.81	23.21
	4H	23.11	24.05	23.54	24.47	24.91	22.06	23.00	22.49	23.42	23.86
	6H	23.54	24.36	24.00	24.80	25.26	22.51	23.33	22.97	23.77	24.23
	8H	23.65	24.41	24.11	24.86	25.32	22.61	23.38	23.08	23.82	24.29
	12H	23.70	24.38	24.18	24.86	25.33	22.67	23.35	23.15	23.83	24.30
8H	4H	23.26	24.02	23.72	24.47	24.93	22.30	23.06	22.76	23.51	23.98
	6H	23.76	24.39	24.26	24.89	25.36	22.84	23.47	23.33	23.96	24.44
	8H	23.91	24.48	24.43	24.99	25.47	22.99	23.55	23.50	24.06	24.55
	12H	24.00	24.50	24.51	24.99	25.56	23.08	23.58	23.59	24.07	24.64
12H	4H	23.25	23.94	23.74	24.42	24.89	22.31	22.99	22.79	23.47	23.94
	6H	23.77	24.33	24.28	24.84	25.33	22.86	23.42	23.37	23.93	24.42
	8H	23.95	24.45	24.46	24.94	25.51	23.05	23.55	23.56	24.04	24.60