

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: P1217336

Luminaire Tested: S122DRP-S675D950-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217336  
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-S675D950-X4F0-XX-UDD-G-W  
Description: DEFINE 2, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

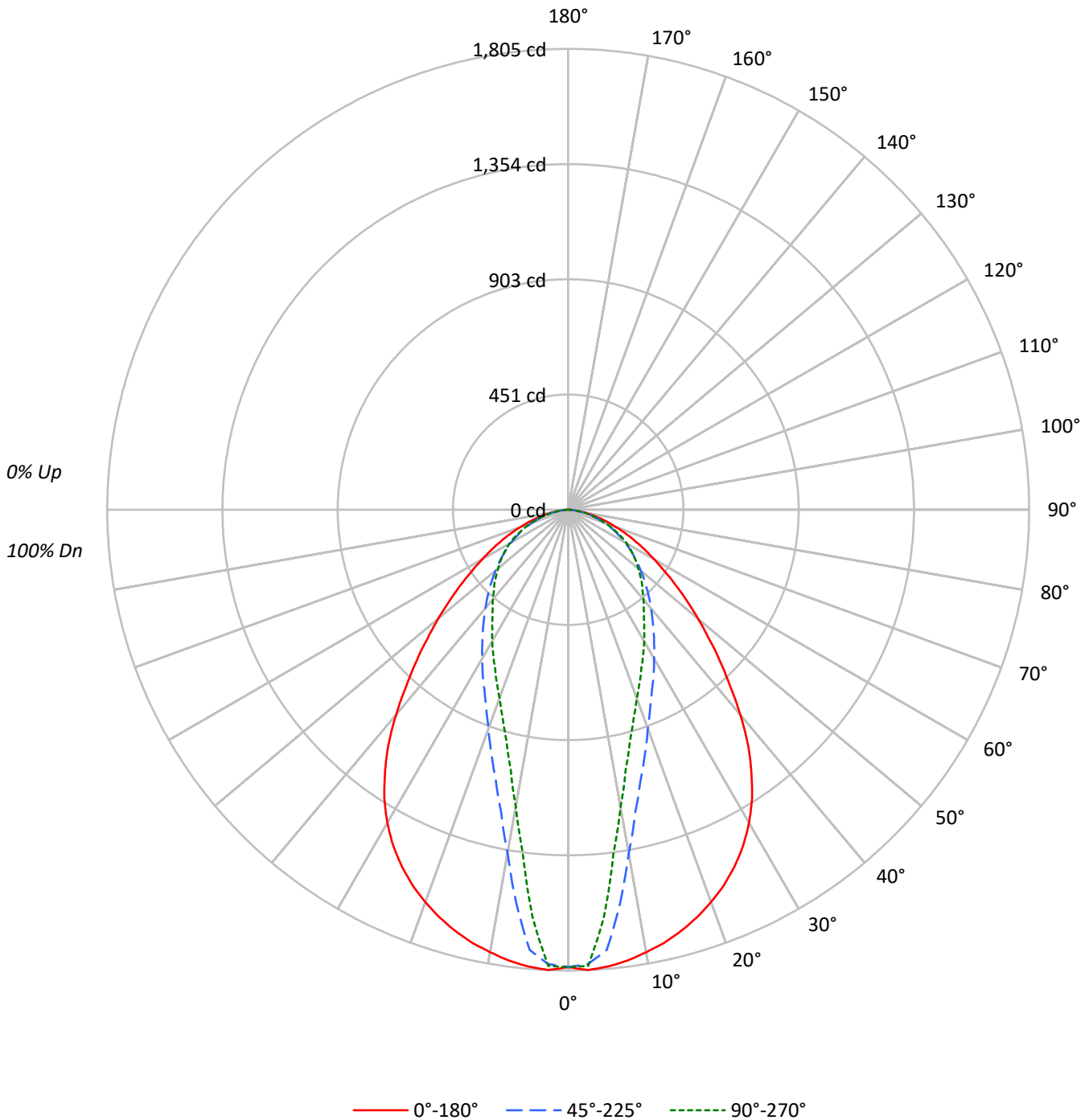
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2407.4 lumens  
Efficiency: N/A  
Efficacy: 91.2 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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CATALOG NUMBER: S122DRP-S675D950-X4F0-XX-UDD-G-W

### 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	100	100	100	100	100		
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87	87	87	87		
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75	75	75	75	75	75		
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65	65	65	65	65	65	65		
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57	57	57	57	57	57	57		
5	80	69	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50	50	50	50	50	50	50		
6	75	63	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45	45	45	45	45	45	45		
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41	41	41	41	41	41	41		
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37	37	37	37	37	37	37		
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34	34	34	34	34	34	34		
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	43	37	33	31	31	31	31	31	31	31		

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

	0°	45°	90°
0°	33941	33941	33941
5°	34159	32915	30481
10°	33853	26285	22724
15°	33507	21483	18349
20°	32973	18390	15827
25°	32214	16234	14202
30°	30993	14721	13023
35°	28920	13486	11974
40°	25932	12458	11347
45°	22560	11644	10942
50°	19583	10935	10549
55°	16945	10342	10279
60°	14694	9738	10022
65°	12862	9132	9468
70°	11079	8387	8697
75°	9238	7386	7664
80°	7245	6012	5815
85°	4478	3869	3869

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22560 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.2	6.4
10°-20°	340.1	14.1
20°-30°	417.3	17.3
30°-40°	431.2	17.9
40°-50°	389.5	16.2
50°-60°	315.6	13.1
60°-70°	221.3	9.2
70°-80°	114.1	4.7
80°-90°	24.1	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°	911.6	37.9
0°-40°	1342.9	55.8
0°-60°	2047.9	85.1
0°-90°	2407.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2407.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1796	1792	1731	1653	1603	170
15°	1708	1440	1095	977	936	481
25°	1541	1023	777	703	679	708
35°	1250	756	583	534	518	777
45°	842	545	435	410	408	651
55°	513	373	313	309	311	462
65°	287	230	204	208	211	287
75°	126	108	101	104	105	136
85°	21	18	18	18	18	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1791.5	1791.5	1791.5	1791.5	1791.5
2.5°	1804.6	1798.0	1781.2	1797.1	1788.7
5°	1796.1	1792.4	1730.7	1653.2	1602.7
7.5°	1781.2	1768.1	1555.0	1408.3	1358.8
10°	1759.7	1694.3	1366.3	1229.8	1181.2
12.5°	1737.3	1583.1	1213.9	1085.9	1042.0
15°	1708.3	1440.1	1095.3	976.6	935.5
17.5°	1674.7	1315.8	1000.9	886.9	854.1
20°	1635.4	1208.3	912.1	812.1	785.0
22.5°	1592.4	1117.7	838.3	757.0	731.7
25°	1541.0	1023.3	776.6	702.8	679.4
27.5°	1484.0	951.3	725.2	656.0	636.4
30°	1416.7	881.2	672.9	611.2	595.3
32.5°	1340.1	815.8	626.1	571.9	553.2
35°	1250.4	756.0	583.1	533.6	517.7
37.5°	1155.1	697.1	542.0	499.0	485.9
40°	1048.5	645.8	503.7	465.4	458.8
42.5°	939.2	594.4	469.1	436.4	430.8
45°	842.0	544.8	434.6	410.3	408.4
47.5°	747.6	500.0	402.8	384.1	382.2
50°	664.4	453.2	371.0	358.9	357.9
52.5°	585.0	412.1	341.1	334.6	336.4
55°	513.0	372.9	313.1	309.3	311.2
57.5°	446.7	336.4	285.0	286.0	288.8
60°	387.8	299.0	257.0	260.7	264.5
62.5°	336.4	264.5	229.9	235.5	239.2
65°	286.9	229.9	203.7	208.4	211.2
67.5°	243.0	197.2	177.6	183.2	184.1
70°	200.0	167.3	151.4	157.0	157.0
72.5°	162.6	136.4	126.2	129.0	129.9
75°	126.2	108.4	100.9	103.7	104.7
77.5°	95.3	82.2	76.6	79.4	78.5
80°	66.4	57.9	55.1	54.2	53.3
82.5°	41.1	36.4	33.6	34.6	33.6
85°	20.6	17.8	17.8	17.8	17.8
87.5°	6.5	6.5	6.5	6.5	6.5
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	20.74	22.24	21.11	22.56	22.87	19.24	20.74	19.61	21.06	21.37
	3H	22.33	23.68	22.71	24.00	24.37	20.95	22.30	21.33	22.63	22.99
	4H	22.85	24.12	23.25	24.47	24.84	21.53	22.80	21.93	23.15	23.53
	6H	23.18	24.35	23.59	24.71	25.11	21.88	23.05	22.30	23.42	23.81
	8H	23.26	24.36	23.68	24.75	25.16	21.96	23.07	22.39	23.46	23.86
	12H	23.28	24.34	23.71	24.73	25.16	21.99	23.05	22.42	23.43	23.86
4H	2H	21.05	22.31	21.45	22.66	23.04	19.80	21.06	20.20	21.41	21.79
	3H	22.83	23.88	23.24	24.28	24.68	21.72	22.77	22.13	23.17	23.57
	4H	23.46	24.41	23.90	24.82	25.26	22.41	23.36	22.85	23.77	24.21
	6H	23.90	24.72	24.35	25.16	25.62	22.87	23.69	23.32	24.13	24.59
	8H	24.00	24.77	24.47	25.21	25.68	22.97	23.73	23.43	24.18	24.65
	12H	24.06	24.74	24.54	25.22	25.69	23.02	23.71	23.51	24.18	24.66
8H	4H	23.61	24.38	24.08	24.82	25.29	22.65	23.42	23.12	23.86	24.33
	6H	24.12	24.75	24.62	25.24	25.72	23.19	23.82	23.69	24.31	24.79
	8H	24.27	24.83	24.78	25.34	25.83	23.34	23.91	23.86	24.42	24.91
	12H	24.36	24.85	24.87	25.35	25.91	23.44	23.94	23.95	24.43	24.99
12H	4H	23.61	24.29	24.09	24.77	25.24	22.67	23.35	23.15	23.83	24.30
	6H	24.12	24.69	24.64	25.20	25.69	23.21	23.78	23.73	24.29	24.78
	8H	24.31	24.80	24.82	25.30	25.86	23.40	23.90	23.92	24.40	24.96