

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: P1217335

Luminaire Tested: S122DRP-S675D940-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217335  
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-S675D940-X4F0-XX-UDD-G-W  
Description: DEFINE 2, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

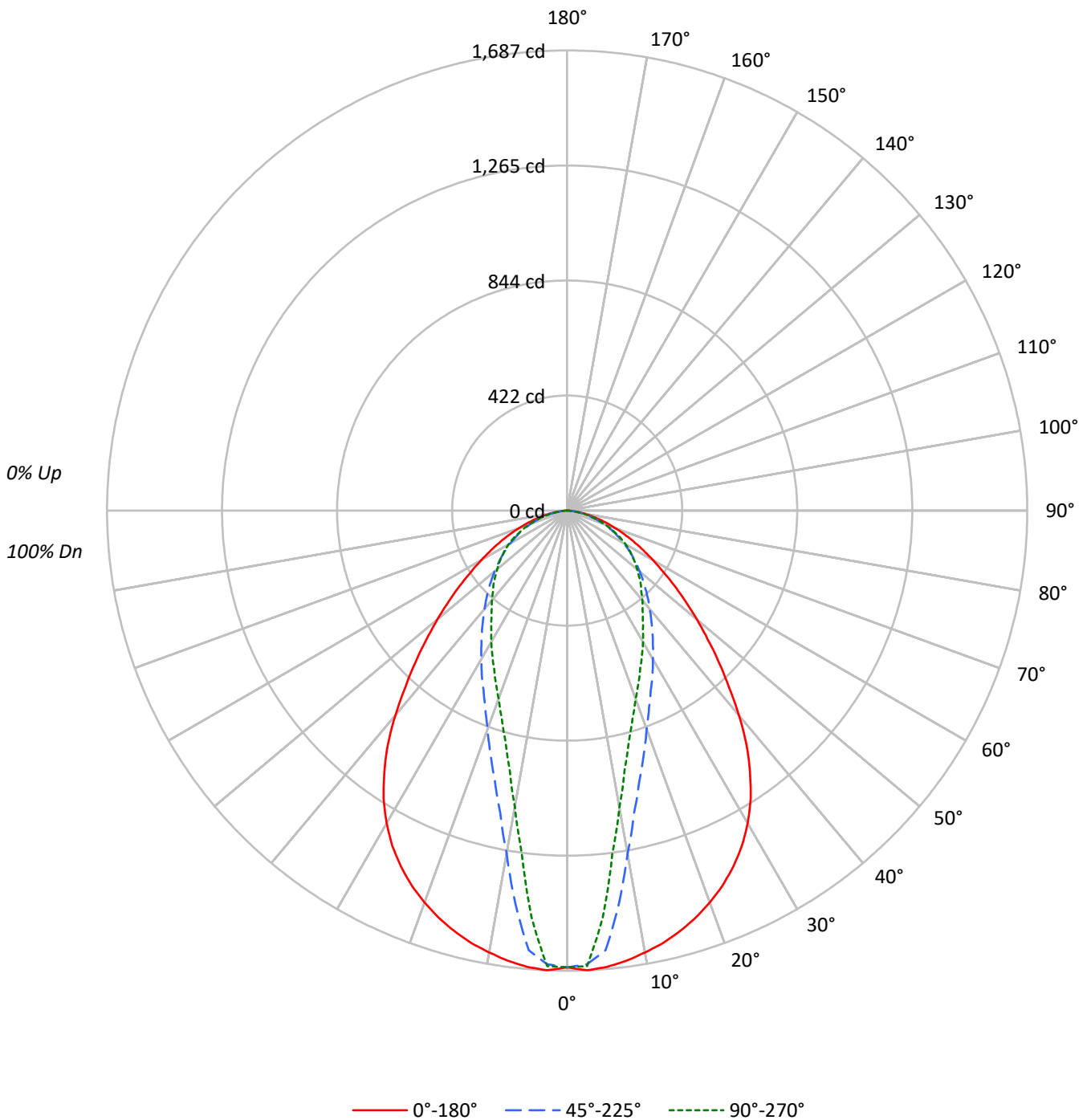
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2250.2 lumens  
Efficiency: N/A  
Efficacy: 85.2 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 (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	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°	31725	31725	31725
5°	31930	30766	28491
10°	31643	24569	21241
15°	31320	20079	17151
20°	30819	17188	14793
25°	30111	15175	13274
30°	28969	13758	12172
35°	27030	12607	11192
40°	24240	11644	10608
45°	21086	10884	10227
50°	18307	10222	9862
55°	15842	9665	9609
60°	13736	9102	9367
65°	12023	8536	8849
70°	10353	7838	8126
75°	8630	6903	7159
80°	6764	5619	5433
85°	4174	3608	3608

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21086 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.2	6.4
10°-20°	317.9	14.1
20°-30°	390.0	17.3
30°-40°	403.1	17.9
40°-50°	364.0	16.2
50°-60°	295.0	13.1
60°-70°	206.8	9.2
70°-80°	106.7	4.7
80°-90°	22.5	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°	852.1	37.9
0°-40°	1255.2	55.8
0°-60°	1914.2	85.1
0°-90°	2250.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2250.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1674	1674	1674	1674	1674	
5°	1679	1675	1618	1545	1498	159
15°	1597	1346	1024	913	874	450
25°	1440	956	726	657	635	662
35°	1169	707	545	499	484	727
45°	787	509	406	384	382	609
55°	480	348	293	289	291	432
65°	268	215	190	195	197	268
75°	118	101	94	97	98	127
85°	19	17	17	17	17	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1674.5	1674.5	1674.5	1674.5	1674.5
2.5°	1686.7	1680.6	1664.9	1679.7	1671.9
5°	1678.9	1675.4	1617.7	1545.2	1498.1
7.5°	1664.9	1652.7	1453.5	1316.4	1270.1
10°	1644.8	1583.7	1277.1	1149.5	1104.1
12.5°	1623.8	1479.7	1134.7	1015.0	974.0
15°	1596.8	1346.1	1023.7	912.8	874.4
17.5°	1565.3	1229.9	935.5	829.0	798.4
20°	1528.6	1129.4	852.5	759.1	733.7
22.5°	1488.4	1044.7	783.5	707.5	683.9
25°	1440.4	956.5	725.9	656.9	635.0
27.5°	1387.1	889.2	677.8	613.2	594.9
30°	1324.2	823.7	628.9	571.3	556.4
32.5°	1252.6	762.6	585.2	534.6	517.1
35°	1168.7	706.7	545.1	498.8	483.9
37.5°	1079.6	651.6	506.6	466.4	454.2
40°	980.1	603.6	470.8	435.0	428.9
42.5°	877.9	555.5	438.5	407.9	402.7
45°	787.0	509.3	406.2	383.5	381.7
47.5°	698.8	467.3	376.5	359.0	357.3
50°	621.1	423.6	346.8	335.4	334.6
52.5°	546.8	385.2	318.8	312.7	314.5
55°	479.6	348.5	292.6	289.1	290.9
57.5°	417.5	314.5	266.4	267.3	269.9
60°	362.5	279.5	240.2	243.7	247.2
62.5°	314.5	247.2	214.9	220.1	223.6
65°	268.2	214.9	190.4	194.8	197.4
67.5°	227.1	184.3	166.0	171.2	172.1
70°	186.9	156.4	141.5	146.7	146.7
72.5°	152.0	127.5	117.9	120.5	121.4
75°	117.9	101.3	94.3	97.0	97.8
77.5°	89.1	76.9	71.6	74.2	73.4
80°	62.0	54.2	51.5	50.7	49.8
82.5°	38.4	34.1	31.4	32.3	31.4
85°	19.2	16.6	16.6	16.6	16.6
87.5°	6.1	6.1	6.1	6.1	6.1
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	20.51	22.01	20.87	22.32	22.64	19.01	20.51	19.37	20.82	21.13
	3H	22.10	23.44	22.47	23.77	24.13	20.72	22.07	21.10	22.39	22.76
	4H	22.62	23.88	23.02	24.23	24.61	21.30	22.56	21.70	22.91	23.29
	6H	22.95	24.11	23.36	24.48	24.87	21.65	22.81	22.06	23.18	23.57
	8H	23.02	24.13	23.45	24.52	24.92	21.72	22.83	22.15	23.22	23.62
	12H	23.05	24.11	23.48	24.49	24.92	21.75	22.82	22.18	23.20	23.63
4H	2H	20.82	22.08	21.22	22.43	22.81	19.57	20.83	19.97	21.18	21.56
	3H	22.60	23.65	23.01	24.05	24.45	21.48	22.53	21.89	22.93	23.33
	4H	23.23	24.17	23.66	24.59	25.03	22.18	23.12	22.61	23.54	23.98
	6H	23.66	24.48	24.12	24.93	25.39	22.63	23.45	23.09	23.89	24.35
	8H	23.77	24.53	24.23	24.98	25.45	22.73	23.50	23.20	23.94	24.41
	12H	23.82	24.50	24.30	24.98	25.45	22.79	23.47	23.27	23.95	24.42
8H	4H	23.38	24.14	23.84	24.59	25.06	22.42	23.18	22.88	23.63	24.10
	6H	23.89	24.52	24.38	25.01	25.49	22.96	23.59	23.45	24.08	24.56
	8H	24.03	24.60	24.55	25.11	25.60	23.11	23.67	23.62	24.18	24.67
	12H	24.12	24.62	24.63	25.11	25.68	23.20	23.70	23.71	24.19	24.76
12H	4H	23.38	24.06	23.86	24.54	25.01	22.43	23.11	22.91	23.59	24.06
	6H	23.89	24.45	24.40	24.96	25.45	22.98	23.54	23.49	24.05	24.54
	8H	24.07	24.57	24.58	25.06	25.63	23.17	23.67	23.68	24.16	24.73