

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: P1217289

Luminaire Tested: S122DRP-H675D935-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217289  
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-H675D935-X4F0-XX-UDD-G-W  
Description: DEFINE 2, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

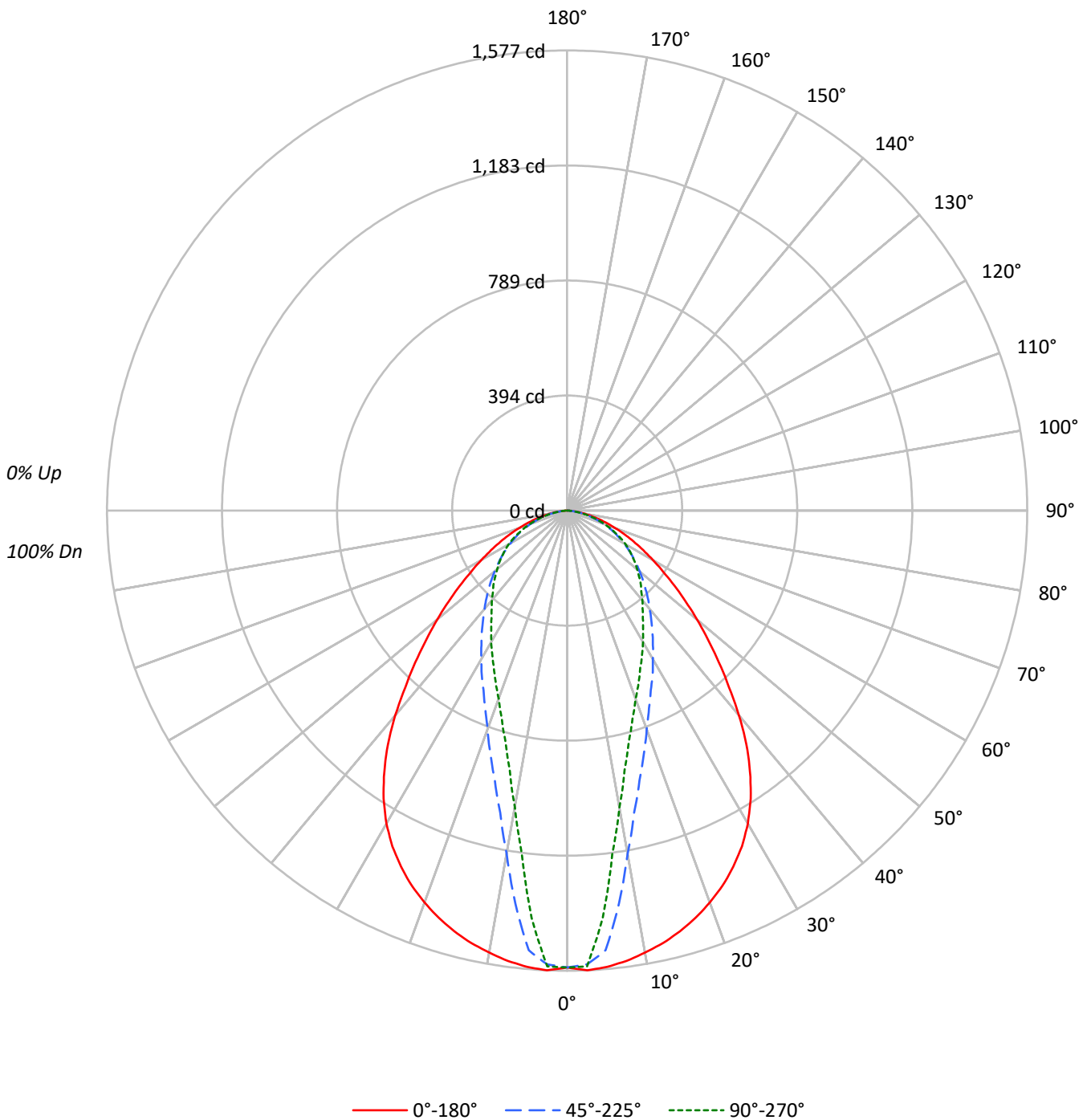
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2103.9 lumens  
Efficiency: N/A  
Efficacy: 88.4 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): 23.8  
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	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				
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°	29664	29664	29664
5°	29855	28767	26639
10°	29586	22972	19861
15°	29284	18775	16037
20°	28817	16071	13833
25°	28154	14188	12413
30°	27088	12866	11382
35°	25275	11786	10466
40°	22664	10887	9918
45°	19717	10176	9563
50°	17116	9556	9220
55°	14811	9037	8984
60°	12841	8510	8757
65°	11239	7980	8276
70°	9683	7329	7600
75°	8074	6456	6698
80°	6328	5259	5084
85°	3913	3369	3369

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19717 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.8	6.4
10°-20°	297.2	14.1
20°-30°	364.7	17.3
30°-40°	376.9	17.9
40°-50°	340.4	16.2
50°-60°	275.8	13.1
60°-70°	193.4	9.2
70°-80°	99.7	4.7
80°-90°	21.0	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°	796.7	37.9
0°-40°	1173.6	55.8
0°-60°	1789.8	85.1
0°-90°	2103.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2103.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1566	1566	1566	1566	1566	
5°	1570	1566	1513	1445	1401	149
15°	1493	1259	957	854	818	421
25°	1347	894	679	614	594	619
35°	1093	661	510	466	452	679
45°	736	476	380	358	357	569
55°	448	326	274	270	272	404
65°	251	201	178	182	185	251
75°	110	95	88	91	92	119
85°	18	16	16	16	16	24
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1565.7	1565.7	1565.7	1565.7	1565.7
2.5°	1577.1	1571.4	1556.7	1570.6	1563.2
5°	1569.8	1566.5	1512.6	1444.8	1400.7
7.5°	1556.7	1545.3	1359.1	1230.8	1187.5
10°	1537.9	1480.7	1194.1	1074.8	1032.4
12.5°	1518.3	1383.6	1060.9	949.0	910.7
15°	1493.0	1258.6	957.2	853.5	817.6
17.5°	1463.6	1150.0	874.7	775.1	746.5
20°	1429.3	1056.0	797.1	709.7	686.1
22.5°	1391.7	976.8	732.6	661.6	639.5
25°	1346.8	894.3	678.7	614.2	593.8
27.5°	1297.0	831.4	633.8	573.3	556.2
30°	1238.2	770.2	588.1	534.1	520.3
32.5°	1171.2	713.0	547.2	499.8	483.5
35°	1092.8	660.7	509.6	466.4	452.5
37.5°	1009.5	609.3	473.7	436.1	424.7
40°	916.4	564.4	440.2	406.7	401.0
42.5°	820.8	519.4	410.0	381.4	376.5
45°	735.9	476.2	379.8	358.5	356.9
47.5°	653.4	437.0	352.0	335.7	334.0
50°	580.7	396.1	324.2	313.6	312.8
52.5°	511.3	360.2	298.1	292.4	294.0
55°	448.4	325.9	273.6	270.3	272.0
57.5°	390.4	294.0	249.1	249.9	252.4
60°	338.9	261.4	224.6	227.9	231.1
62.5°	294.0	231.1	200.9	205.8	209.1
65°	250.7	200.9	178.0	182.1	184.6
67.5°	212.4	172.3	155.2	160.1	160.9
70°	174.8	146.2	132.3	137.2	137.2
72.5°	142.1	119.2	110.3	112.7	113.5
75°	110.3	94.7	88.2	90.7	91.5
77.5°	83.3	71.9	67.0	69.4	68.6
80°	58.0	50.6	48.2	47.4	46.6
82.5°	35.9	31.9	29.4	30.2	29.4
85°	18.0	15.5	15.5	15.5	15.5
87.5°	5.7	5.7	5.7	5.7	5.7
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	20.28	21.77	20.64	22.09	22.40	18.77	20.27	19.14	20.59	20.90
	3H	21.86	23.21	22.24	23.54	23.90	20.49	21.83	20.86	22.16	22.52
	4H	22.39	23.65	22.79	24.00	24.38	21.07	22.33	21.47	22.68	23.06
	6H	22.71	23.88	23.13	24.25	24.64	21.41	22.58	21.83	22.95	23.34
	8H	22.79	23.90	23.21	24.29	24.69	21.49	22.60	21.92	22.99	23.39
	12H	22.81	23.88	23.24	24.26	24.69	21.52	22.58	21.95	22.96	23.39
4H	2H	20.58	21.85	20.98	22.20	22.57	19.33	20.60	19.73	20.94	21.32
	3H	22.37	23.41	22.78	23.81	24.22	21.25	22.30	21.66	22.70	23.10
	4H	22.99	23.94	23.43	24.35	24.79	21.95	22.89	22.38	23.30	23.74
	6H	23.43	24.25	23.89	24.69	25.15	22.40	23.22	22.86	23.66	24.12
	8H	23.54	24.30	24.00	24.75	25.21	22.50	23.27	22.97	23.71	24.18
	12H	23.59	24.27	24.07	24.75	25.22	22.55	23.24	23.04	23.72	24.19
8H	4H	23.14	23.91	23.61	24.35	24.82	22.19	22.95	22.65	23.40	23.86
	6H	23.65	24.28	24.15	24.77	25.25	22.72	23.36	23.22	23.85	24.32
	8H	23.80	24.36	24.31	24.87	25.36	22.87	23.44	23.39	23.95	24.44
	12H	23.89	24.39	24.40	24.88	25.44	22.97	23.47	23.48	23.96	24.53
12H	4H	23.14	23.83	23.63	24.30	24.78	22.20	22.88	22.68	23.36	23.83
	6H	23.65	24.22	24.17	24.73	25.22	22.75	23.31	23.26	23.82	24.31
	8H	23.84	24.34	24.35	24.83	25.39	22.94	23.43	23.45	23.93	24.49