

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: P1217288

Luminaire Tested: S122DRP-H675D930-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217288  
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-H675D930-X4F0-XX-UDD-G-W  
Description: DEFINE 2, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

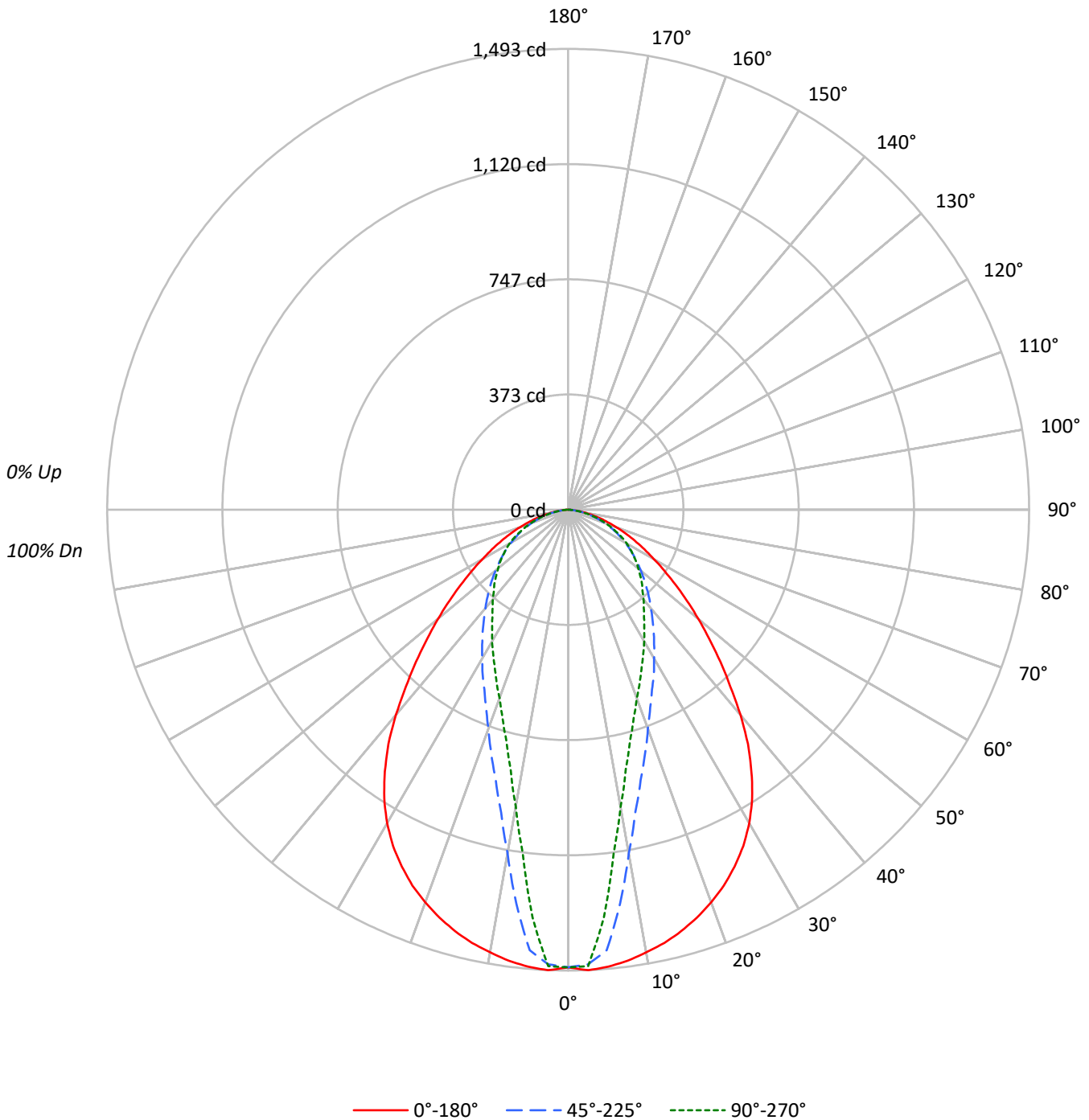
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1992.3 lumens  
Efficiency: N/A  
Efficacy: 83.7 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): 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	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°	28089	28089	28089
5°	28269	27240	25226
10°	28016	21753	18807
15°	27731	17778	15185
20°	27287	15218	13097
25°	26659	13435	11755
30°	25651	12181	10777
35°	23933	11162	9911
40°	21460	10311	9391
45°	18670	9635	9056
50°	16208	9049	8730
55°	14025	8558	8506
60°	12163	8060	8294
65°	10643	7558	7836
70°	9168	6941	7196
75°	7642	6112	6339
80°	5990	4975	4812
85°	3695	3195	3195

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18670 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.6	6.4
10°-20°	281.5	14.1
20°-30°	345.3	17.3
30°-40°	356.9	17.9
40°-50°	322.3	16.2
50°-60°	261.2	13.1
60°-70°	183.1	9.2
70°-80°	94.4	4.7
80°-90°	19.9	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°	754.4	37.9
0°-40°	1111.3	55.8
0°-60°	1694.8	85.1
0°-90°	1992.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1992.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1483	1483	1483	1483	1483	
5°	1486	1483	1432	1368	1326	141
15°	1414	1192	906	808	774	398
25°	1275	847	643	582	562	586
35°	1035	626	483	442	428	643
45°	697	451	360	340	338	539
55°	425	309	259	256	258	382
65°	237	190	169	172	175	237
75°	104	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°	1482.6	1482.6	1482.6	1482.6	1482.6
2.5°	1493.4	1488.0	1474.1	1487.2	1480.3
5°	1486.4	1483.4	1432.3	1368.1	1326.4
7.5°	1474.1	1463.2	1286.9	1165.5	1124.5
10°	1456.3	1402.1	1130.7	1017.8	977.6
12.5°	1437.7	1310.1	1004.6	898.7	862.3
15°	1413.8	1191.8	906.4	808.2	774.2
17.5°	1385.9	1088.9	828.3	733.9	706.9
20°	1353.4	1000.0	754.8	672.1	649.6
22.5°	1317.9	925.0	693.7	626.4	605.6
25°	1275.3	846.9	642.7	581.6	562.3
27.5°	1228.1	787.3	600.1	542.9	526.7
30°	1172.5	729.3	556.8	505.8	492.6
32.5°	1109.0	675.2	518.2	473.3	457.8
35°	1034.8	625.7	482.6	441.6	428.5
37.5°	955.9	576.9	448.6	413.0	402.2
40°	867.7	534.4	416.9	385.1	379.7
42.5°	777.3	491.9	388.2	361.2	356.5
45°	696.8	450.9	359.6	339.5	338.0
47.5°	618.7	413.8	333.3	317.9	316.3
50°	549.9	375.1	307.0	297.0	296.2
52.5°	484.1	341.1	282.3	276.9	278.4
55°	424.6	308.6	259.1	256.0	257.5
57.5°	369.7	278.4	235.9	236.7	239.0
60°	321.0	247.5	212.7	215.8	218.9
62.5°	278.4	218.9	190.3	194.9	198.0
65°	237.4	190.3	168.6	172.5	174.8
67.5°	201.1	163.2	146.9	151.6	152.4
70°	165.5	138.4	125.3	129.9	129.9
72.5°	134.6	112.9	104.4	106.7	107.5
75°	104.4	89.7	83.5	85.8	86.6
77.5°	78.9	68.1	63.4	65.7	65.0
80°	54.9	47.9	45.6	44.9	44.1
82.5°	34.0	30.2	27.8	28.6	27.8
85°	17.0	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	20.09	21.59	20.45	21.90	22.21	18.59	20.08	18.95	20.40	20.71
	3H	21.67	23.02	22.05	23.35	23.71	20.30	21.64	20.68	21.97	22.33
	4H	22.20	23.46	22.60	23.81	24.19	20.88	22.14	21.28	22.49	22.87
	6H	22.52	23.69	22.94	24.06	24.45	21.23	22.39	21.64	22.76	23.15
	8H	22.60	23.71	23.02	24.10	24.50	21.30	22.41	21.73	22.80	23.20
	12H	22.62	23.69	23.05	24.07	24.50	21.33	22.39	21.76	22.78	23.20
4H	2H	20.40	21.66	20.80	22.01	22.39	19.15	20.41	19.55	20.76	21.14
	3H	22.18	23.22	22.59	23.62	24.03	21.06	22.11	21.47	22.51	22.91
	4H	22.81	23.75	23.24	24.16	24.60	21.76	22.70	22.19	23.12	23.55
	6H	23.24	24.06	23.70	24.50	24.96	22.21	23.03	22.67	23.47	23.93
	8H	23.35	24.11	23.81	24.56	25.02	22.31	23.08	22.78	23.52	23.99
	12H	23.40	24.08	23.88	24.56	25.03	22.36	23.05	22.85	23.53	24.00
8H	4H	22.95	23.72	23.42	24.16	24.63	22.00	22.76	22.46	23.21	23.67
	6H	23.46	24.09	23.96	24.58	25.06	22.53	23.17	23.03	23.66	24.13
	8H	23.61	24.17	24.12	24.68	25.17	22.68	23.25	23.20	23.76	24.25
	12H	23.70	24.20	24.21	24.69	25.25	22.78	23.28	23.29	23.77	24.34
12H	4H	22.95	23.64	23.44	24.11	24.59	22.01	22.69	22.49	23.17	23.64
	6H	23.46	24.03	23.98	24.54	25.03	22.56	23.12	23.07	23.63	24.12
	8H	23.65	24.15	24.16	24.64	25.20	22.75	23.24	23.26	23.74	24.30