

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: P1217261

Luminaire Tested: S122DRP-H1005D930-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217261  
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-H1005D930-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: -

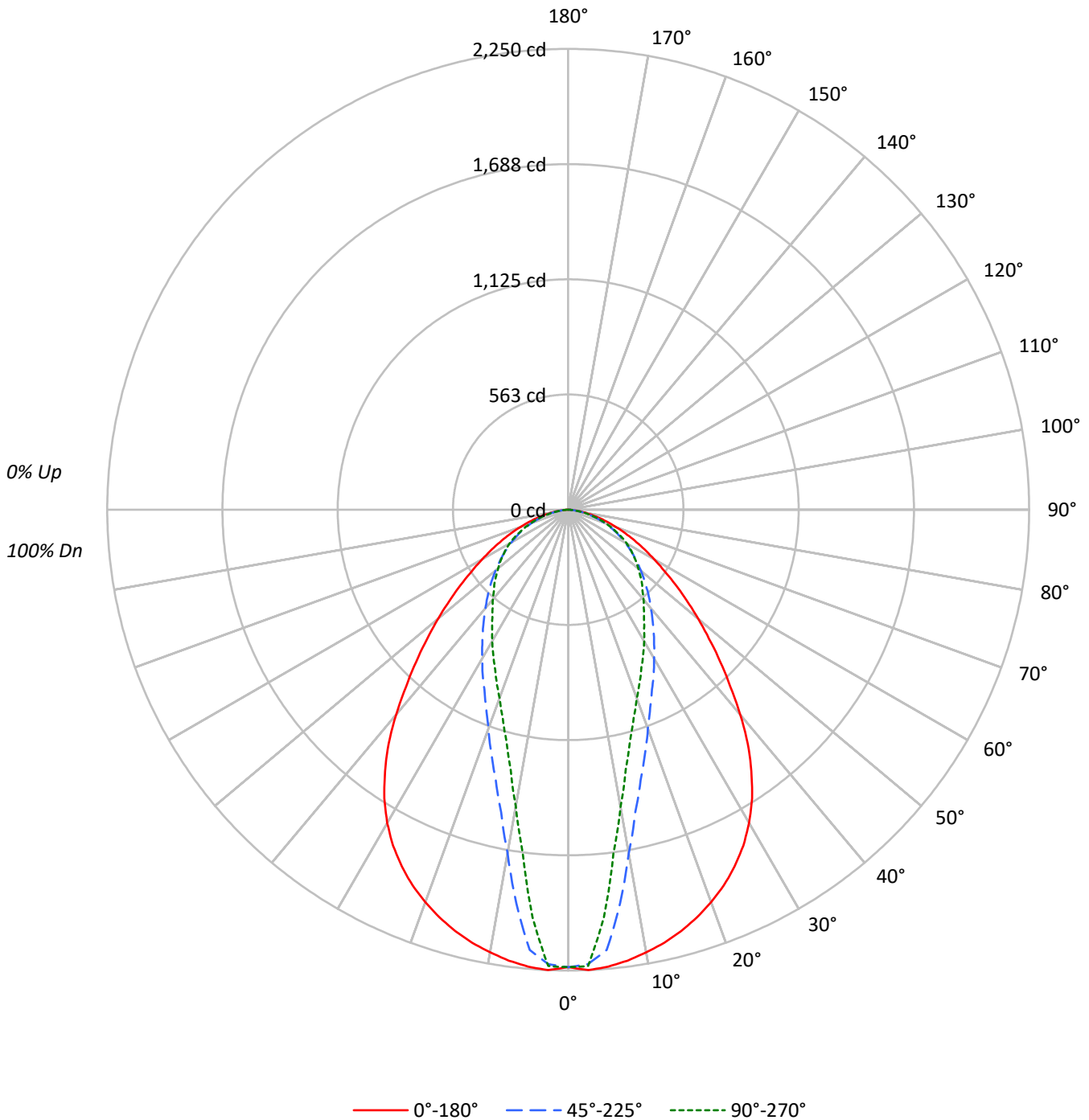
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3001.4 lumens  
Efficiency: N/A  
Efficacy: 82.0 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): 36.6  
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	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°	42317	42317	42317
5°	42589	41038	38002
10°	42207	32770	28332
15°	41776	26783	22876
20°	41110	22928	19732
25°	40164	20240	17708
30°	38641	18352	16237
35°	36055	16815	14930
40°	32332	15532	14149
45°	28128	14517	13643
50°	24417	13635	13152
55°	21130	12892	12816
60°	18321	12141	12493
65°	16036	11387	11804
70°	13810	10458	10841
75°	11515	9209	9553
80°	9023	7496	7245
85°	5565	4804	4804

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 28128 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.3	6.4
10°-20°	424.0	14.1
20°-30°	520.3	17.3
30°-40°	537.7	17.9
40°-50°	485.6	16.2
50°-60°	393.5	13.1
60°-70°	275.8	9.2
70°-80°	142.3	4.7
80°-90°	30.0	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°	1136.6	37.9
0°-40°	1674.2	55.8
0°-60°	2553.3	85.1
0°-90°	3001.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3001.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2239	2235	2158	2061	1998	212
15°	2130	1796	1366	1218	1166	600
25°	1921	1276	968	876	847	883
35°	1559	943	727	665	646	969
45°	1050	679	542	512	509	812
55°	640	465	390	386	388	576
65°	358	287	254	260	263	357
75°	157	135	126	129	130	170
85°	26	22	22	22	22	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2233.6	2233.6	2233.6	2233.6	2233.6
2.5°	2249.9	2241.7	2220.7	2240.6	2230.1
5°	2239.4	2234.7	2157.8	2061.1	1998.2
7.5°	2220.7	2204.4	1938.8	1755.9	1694.1
10°	2193.9	2112.4	1703.4	1533.3	1472.7
12.5°	2166.0	1973.7	1513.5	1353.9	1299.1
15°	2129.9	1795.5	1365.5	1217.6	1166.3
17.5°	2087.9	1640.5	1247.9	1105.7	1064.9
20°	2039.0	1506.5	1137.2	1012.5	978.7
22.5°	1985.4	1393.5	1045.1	943.8	912.3
25°	1921.3	1275.8	968.2	876.2	847.1
27.5°	1850.2	1186.1	904.1	817.9	793.5
30°	1766.3	1098.7	838.9	762.0	742.2
32.5°	1670.8	1017.2	780.6	713.1	689.8
35°	1558.9	942.6	727.0	665.3	645.5
37.5°	1440.1	869.2	675.8	622.2	605.9
40°	1307.3	805.1	628.0	580.2	572.1
42.5°	1171.0	741.0	584.9	544.1	537.1
45°	1049.8	679.3	541.8	511.5	509.2
47.5°	932.1	623.3	502.2	478.9	476.5
50°	828.4	565.1	462.6	447.4	446.2
52.5°	729.4	513.8	425.3	417.1	419.4
55°	639.7	464.9	390.3	385.7	388.0
57.5°	556.9	419.4	355.4	356.5	360.0
60°	483.5	372.8	320.4	325.1	329.7
62.5°	419.4	329.7	286.6	293.6	298.3
65°	357.7	286.6	254.0	259.8	263.3
67.5°	302.9	245.8	221.4	228.4	229.5
70°	249.3	208.6	188.8	195.7	195.7
72.5°	202.7	170.1	157.3	160.8	162.0
75°	157.3	135.2	125.8	129.3	130.5
77.5°	118.8	102.5	95.5	99.0	97.9
80°	82.7	72.2	68.7	67.6	66.4
82.5°	51.3	45.4	41.9	43.1	41.9
85°	25.6	22.1	22.1	22.1	22.1
87.5°	8.2	8.2	8.2	8.2	8.2
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	21.51	23.01	21.87	23.32	23.64	20.01	21.51	20.37	21.82	22.13
	3H	23.10	24.44	23.47	24.77	25.13	21.72	23.07	22.10	23.39	23.76
	4H	23.62	24.88	24.02	25.23	25.61	22.30	23.56	22.70	23.91	24.29
	6H	23.95	25.11	24.36	25.48	25.87	22.65	23.81	23.06	24.18	24.57
	8H	24.02	25.13	24.45	25.52	25.92	22.72	23.83	23.15	24.22	24.62
	12H	24.05	25.11	24.48	25.49	25.92	22.75	23.82	23.18	24.20	24.63
4H	2H	21.82	23.08	22.22	23.43	23.81	20.57	21.83	20.97	22.18	22.56
	3H	23.60	24.65	24.01	25.05	25.45	22.48	23.53	22.89	23.93	24.33
	4H	24.23	25.17	24.66	25.59	26.03	23.18	24.12	23.61	24.54	24.98
	6H	24.66	25.48	25.12	25.93	26.39	23.63	24.45	24.09	24.89	25.35
	8H	24.77	25.53	25.23	25.98	26.45	23.73	24.50	24.20	24.94	25.41
	12H	24.82	25.50	25.30	25.98	26.45	23.79	24.47	24.27	24.95	25.42
8H	4H	24.38	25.14	24.84	25.59	26.06	23.42	24.19	23.88	24.63	25.10
	6H	24.89	25.52	25.38	26.01	26.49	23.96	24.59	24.46	25.08	25.56
	8H	25.03	25.60	25.55	26.11	26.60	24.11	24.67	24.62	25.18	25.67
	12H	25.12	25.62	25.63	26.11	26.68	24.20	24.70	24.71	25.19	25.76
12H	4H	24.38	25.06	24.86	25.54	26.01	23.43	24.11	23.91	24.59	25.06
	6H	24.89	25.45	25.40	25.96	26.45	23.98	24.54	24.49	25.05	25.54
	8H	25.07	25.57	25.58	26.06	26.63	24.17	24.67	24.68	25.16	25.73