

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: P1217260

Luminaire Tested: S122DRP-H1005D927-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217260  
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-H1005D927-X4F0-XX-UDD-G-W  
Description: DEFINE 2, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

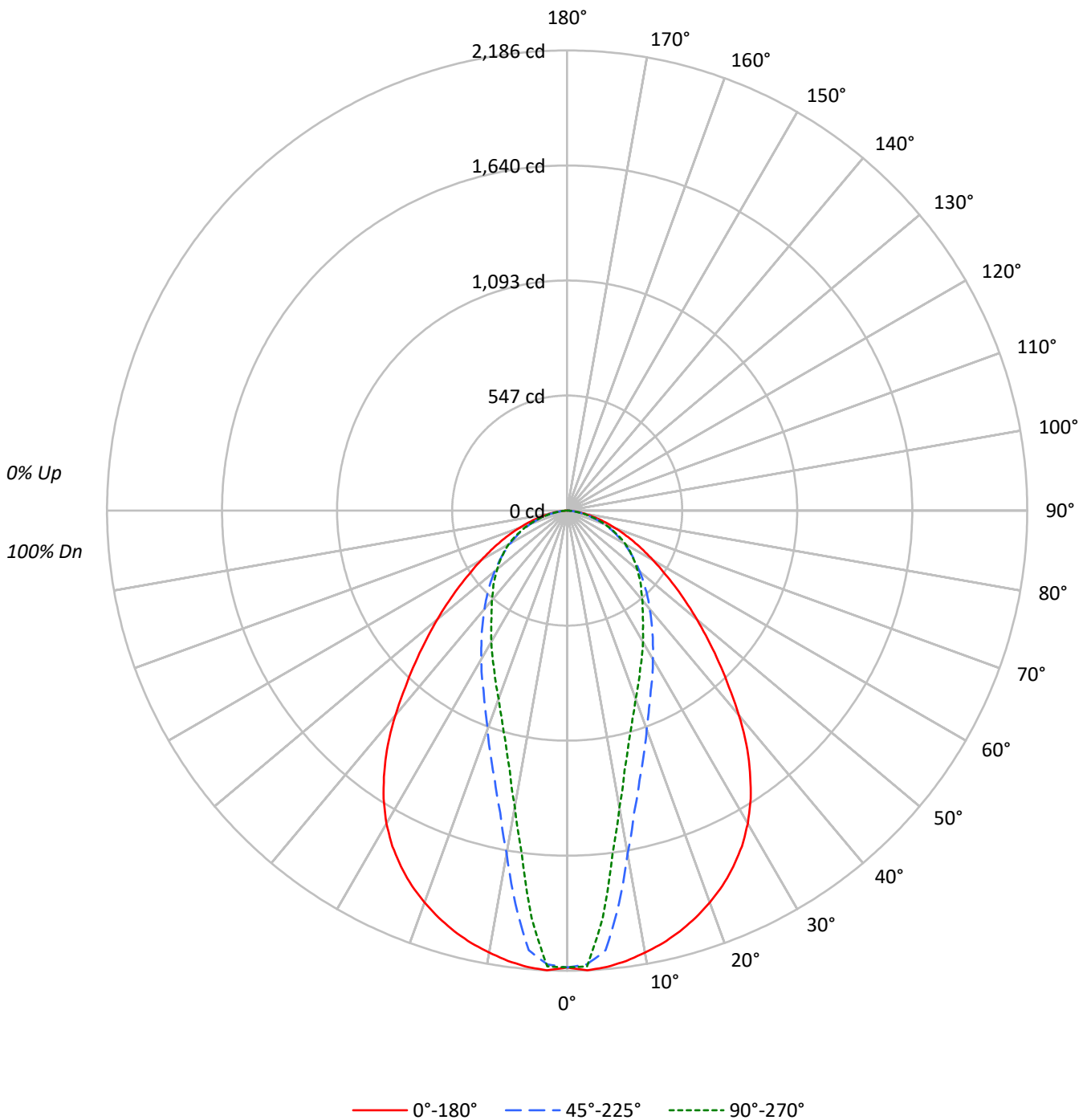
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2916.3 lumens  
Efficiency: N/A  
Efficacy: 79.7 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): 36.6  
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°	41116	41116	41116
5°	41382	39874	36924
10°	41010	31841	27530
15°	40592	26024	22227
20°	39944	22277	19174
25°	39024	19667	17204
30°	37547	17832	15775
35°	35033	16338	14506
40°	31415	15091	13749
45°	27329	14104	13255
50°	23724	13246	12780
55°	20529	12529	12453
60°	17802	11796	12141
65°	15583	11064	11472
70°	13422	10159	10536
75°	11185	8953	9282
80°	8772	7288	7037
85°	5413	4674	4674

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 27329 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.8	6.4
10°-20°	412.0	14.1
20°-30°	505.5	17.3
30°-40°	522.4	17.9
40°-50°	471.8	16.2
50°-60°	382.3	13.1
60°-70°	268.0	9.2
70°-80°	138.2	4.7
80°-90°	29.2	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°	1104.4	37.9
0°-40°	1626.8	55.8
0°-60°	2480.9	85.1
0°-90°	2916.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2916.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2170	2170	2170	2170	2170	
5°	2176	2171	2097	2003	1942	206
15°	2070	1745	1327	1183	1133	583
25°	1867	1240	941	851	823	858
35°	1515	916	706	646	627	942
45°	1020	660	526	497	495	789
55°	622	452	379	375	377	560
65°	348	278	247	252	256	347
75°	153	131	122	126	127	165
85°	25	22	22	22	22	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2170.2	2170.2	2170.2	2170.2	2170.2
2.5°	2186.1	2178.2	2157.8	2177.0	2166.8
5°	2175.9	2171.4	2096.6	2002.7	1941.5
7.5°	2157.8	2141.9	1883.8	1706.1	1646.1
10°	2131.7	2052.5	1655.1	1489.8	1431.0
12.5°	2104.6	1917.8	1470.6	1315.5	1262.3
15°	2069.5	1744.6	1326.8	1183.0	1133.2
17.5°	2028.7	1594.0	1212.5	1074.4	1034.7
20°	1981.2	1463.8	1104.9	983.8	951.0
22.5°	1929.1	1354.0	1015.5	917.0	886.4
25°	1866.8	1239.6	940.8	851.3	823.0
27.5°	1797.8	1152.5	878.5	794.7	771.0
30°	1716.3	1067.6	815.1	740.4	721.1
32.5°	1623.4	988.3	758.5	692.8	670.2
35°	1514.7	915.9	706.4	646.4	627.2
37.5°	1399.3	844.5	656.6	604.5	588.7
40°	1270.2	782.3	610.2	563.8	555.9
42.5°	1137.8	720.0	568.3	528.7	521.9
45°	1020.0	660.0	526.4	497.0	494.7
47.5°	905.7	605.7	487.9	465.3	463.0
50°	804.9	549.1	449.4	434.7	433.6
52.5°	708.7	499.3	413.2	405.3	407.6
55°	621.5	451.7	379.3	374.7	377.0
57.5°	541.1	407.6	345.3	346.4	349.8
60°	469.8	362.3	311.3	315.9	320.4
62.5°	407.6	320.4	278.5	285.3	289.8
65°	347.6	278.5	246.8	252.5	255.9
67.5°	294.3	238.9	215.1	221.9	223.0
70°	242.3	202.6	183.4	190.2	190.2
72.5°	197.0	165.3	152.8	156.2	157.4
75°	152.8	131.3	122.3	125.7	126.8
77.5°	115.5	99.6	92.8	96.2	95.1
80°	80.4	70.2	66.8	65.7	64.5
82.5°	49.8	44.2	40.8	41.9	40.8
85°	24.9	21.5	21.5	21.5	21.5
87.5°	7.9	7.9	7.9	7.9	7.9
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	21.41	22.91	21.78	23.22	23.54	19.91	21.41	20.27	21.72	22.04
	3H	23.00	24.34	23.37	24.67	25.03	21.62	22.97	22.00	23.29	23.66
	4H	23.52	24.78	23.92	25.13	25.51	22.20	23.46	22.60	23.81	24.19
	6H	23.85	25.01	24.26	25.38	25.77	22.55	23.71	22.96	24.08	24.47
	8H	23.92	25.03	24.35	25.42	25.82	22.62	23.73	23.05	24.12	24.53
	12H	23.95	25.01	24.38	25.39	25.82	22.65	23.72	23.09	24.10	24.53
4H	2H	21.72	22.98	22.12	23.33	23.71	20.47	21.73	20.87	22.08	22.46
	3H	23.50	24.55	23.91	24.95	25.35	22.38	23.43	22.80	23.83	24.23
	4H	24.13	25.07	24.56	25.49	25.93	23.08	24.02	23.51	24.44	24.88
	6H	24.56	25.38	25.02	25.83	26.29	23.53	24.35	23.99	24.79	25.25
	8H	24.67	25.44	25.13	25.88	26.35	23.64	24.40	24.10	24.85	25.31
	12H	24.72	25.40	25.20	25.88	26.35	23.69	24.37	24.17	24.85	25.32
8H	4H	24.28	25.04	24.74	25.49	25.96	23.32	24.09	23.78	24.53	25.00
	6H	24.79	25.42	25.28	25.91	26.39	23.86	24.49	24.36	24.98	25.46
	8H	24.93	25.50	25.45	26.01	26.50	24.01	24.57	24.52	25.08	25.57
	12H	25.02	25.52	25.53	26.01	26.58	24.10	24.60	24.61	25.09	25.66
12H	4H	24.28	24.96	24.76	25.44	25.91	23.33	24.02	23.81	24.49	24.97
	6H	24.79	25.35	25.30	25.86	26.35	23.88	24.45	24.39	24.96	25.44
	8H	24.97	25.47	25.48	25.96	26.53	24.07	24.57	24.58	25.06	25.63