

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: P1217262

Luminaire Tested: S122DRP-H1005D935-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217262  
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-H1005D935-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: -

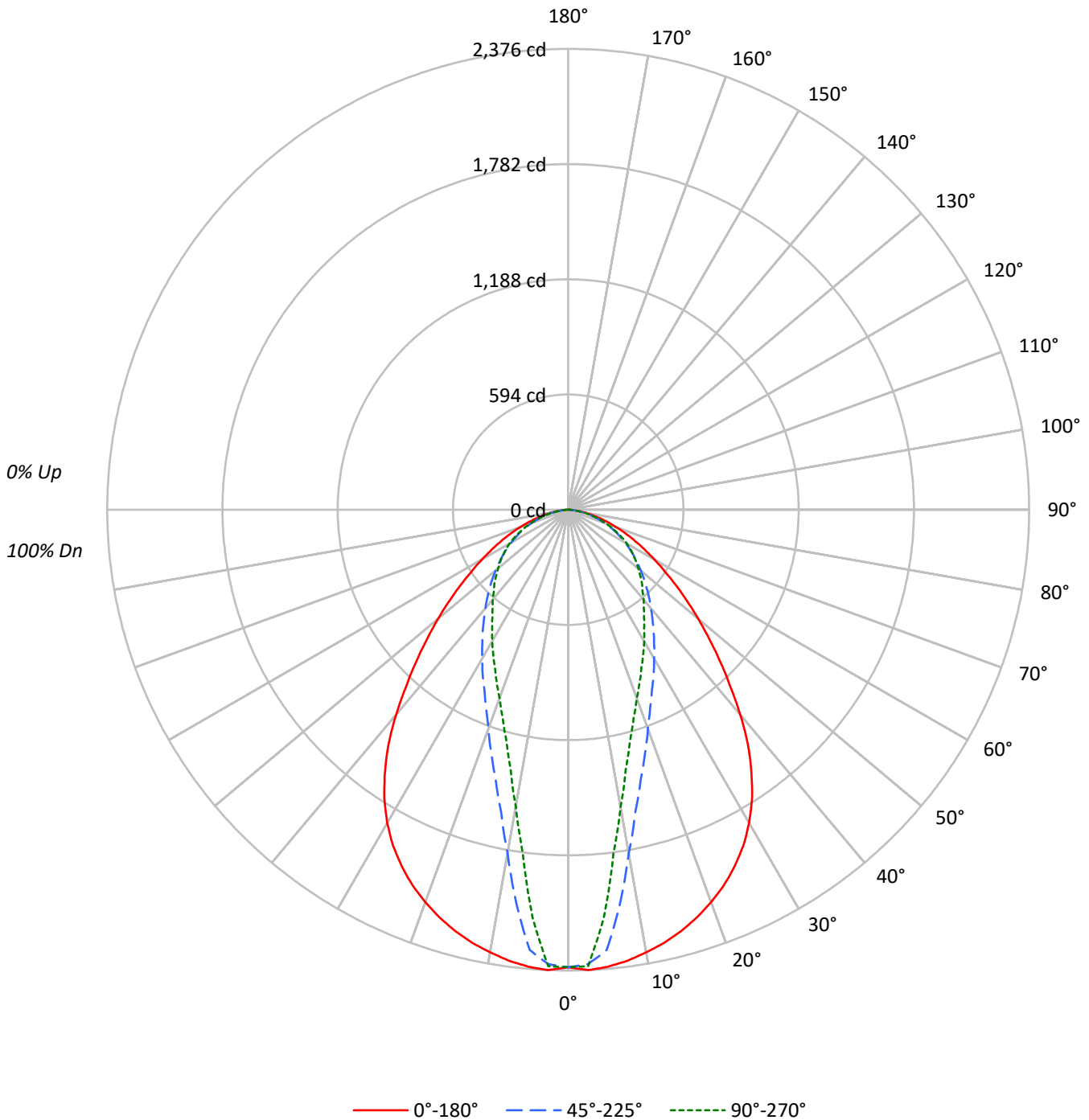
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3169.7 lumens  
Efficiency: N/A  
Efficacy: 86.6 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	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°	44689	44689	44689
5°	44976	43339	40132
10°	44573	34607	29921
15°	44116	28286	24159
20°	43414	24212	20839
25°	42415	21375	18699
30°	40807	19381	17147
35°	38077	17758	15767
40°	34145	16402	14941
45°	29703	15331	14407
50°	25784	14398	13891
55°	22312	13615	13533
60°	19348	12823	13194
65°	16932	12023	12467
70°	14585	11040	11450
75°	12159	9728	10087
80°	9536	7921	7648
85°	5891	5087	5087

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 29703 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.1	6.4
10°-20°	447.8	14.1
20°-30°	549.4	17.3
30°-40°	567.8	17.9
40°-50°	512.8	16.2
50°-60°	415.6	13.1
60°-70°	291.3	9.2
70°-80°	150.2	4.7
80°-90°	31.7	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°	1200.3	37.9
0°-40°	1768.1	55.8
0°-60°	2696.4	85.1
0°-90°	3169.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3169.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2359	2359	2359	2359	2359	
5°	2365	2360	2279	2177	2110	224
15°	2249	1896	1442	1286	1232	634
25°	2029	1347	1022	925	894	932
35°	1646	995	768	703	682	1023
45°	1109	717	572	540	538	858
55°	676	491	412	407	410	608
65°	378	303	268	274	278	378
75°	166	143	133	137	138	179
85°	27	23	23	23	23	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2358.8	2358.8	2358.8	2358.8	2358.8
2.5°	2376.0	2367.4	2345.2	2366.1	2355.1
5°	2364.9	2360.0	2278.8	2176.7	2110.2
7.5°	2345.2	2328.0	2047.5	1854.3	1789.1
10°	2316.9	2230.8	1798.9	1619.3	1555.3
12.5°	2287.4	2084.4	1598.3	1429.8	1371.9
15°	2249.2	1896.1	1442.1	1285.8	1231.7
17.5°	2205.0	1732.5	1317.8	1167.7	1124.6
20°	2153.3	1591.0	1200.9	1069.3	1033.6
22.5°	2096.7	1471.6	1103.7	996.7	963.4
25°	2029.0	1347.3	1022.5	925.3	894.5
27.5°	1953.9	1252.6	954.8	863.8	837.9
30°	1865.3	1160.3	885.9	804.7	783.8
32.5°	1764.5	1074.2	824.4	753.0	728.4
35°	1646.3	995.4	767.8	702.6	681.7
37.5°	1520.8	917.9	713.7	657.1	639.8
40°	1380.6	850.2	663.2	612.8	604.1
42.5°	1236.6	782.6	617.7	574.6	567.2
45°	1108.6	717.3	572.2	540.2	537.7
47.5°	984.4	658.3	530.3	505.7	503.3
50°	874.8	596.8	488.5	472.5	471.3
52.5°	770.3	542.6	449.1	440.5	443.0
55°	675.5	490.9	412.2	407.3	409.7
57.5°	588.2	443.0	375.3	376.5	380.2
60°	510.6	393.7	338.4	343.3	348.2
62.5°	443.0	348.2	302.7	310.1	315.0
65°	377.7	302.7	268.2	274.4	278.1
67.5°	319.9	259.6	233.8	241.2	242.4
70°	263.3	220.2	199.3	206.7	206.7
72.5°	214.1	179.6	166.1	169.8	171.0
75°	166.1	142.7	132.9	136.6	137.8
77.5°	125.5	108.3	100.9	104.6	103.4
80°	87.4	76.3	72.6	71.4	70.1
82.5°	54.1	48.0	44.3	45.5	44.3
85°	27.1	23.4	23.4	23.4	23.4
87.5°	8.6	8.6	8.6	8.6	8.6
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	21.70	23.20	22.06	23.51	23.83	20.20	21.70	20.56	22.01	22.32
	3H	23.29	24.63	23.66	24.96	25.32	21.91	23.26	22.29	23.58	23.95
	4H	23.81	25.07	24.21	25.42	25.80	22.49	23.75	22.89	24.10	24.48
	6H	24.14	25.30	24.55	25.67	26.06	22.84	24.00	23.25	24.37	24.76
	8H	24.21	25.32	24.64	25.71	26.11	22.91	24.02	23.34	24.41	24.81
	12H	24.24	25.30	24.67	25.68	26.11	22.94	24.01	23.37	24.39	24.82
4H	2H	22.01	23.27	22.41	23.62	24.00	20.76	22.02	21.16	22.37	22.75
	3H	23.79	24.84	24.20	25.24	25.64	22.67	23.72	23.08	24.12	24.52
	4H	24.42	25.36	24.85	25.78	26.22	23.37	24.31	23.80	24.73	25.17
	6H	24.85	25.67	25.31	26.12	26.58	23.82	24.64	24.28	25.08	25.54
	8H	24.96	25.72	25.42	26.17	26.64	23.92	24.69	24.39	25.13	25.60
	12H	25.01	25.69	25.49	26.17	26.64	23.98	24.66	24.46	25.14	25.61
8H	4H	24.57	25.33	25.03	25.78	26.25	23.61	24.38	24.07	24.82	25.29
	6H	25.08	25.71	25.57	26.20	26.68	24.15	24.78	24.65	25.27	25.75
	8H	25.22	25.79	25.74	26.30	26.79	24.30	24.86	24.81	25.37	25.86
	12H	25.31	25.81	25.82	26.30	26.87	24.39	24.89	24.90	25.38	25.95
12H	4H	24.57	25.25	25.05	25.73	26.20	23.62	24.30	24.10	24.78	25.25
	6H	25.08	25.64	25.59	26.15	26.64	24.17	24.73	24.68	25.24	25.73
	8H	25.26	25.76	25.77	26.25	26.82	24.36	24.86	24.87	25.35	25.92