

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: P1217307

Luminaire Tested: S122DRP-S1005D935-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217307
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-S1005D935-X4F0-XX-UDD-G-W
Description: DEFINE 2, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

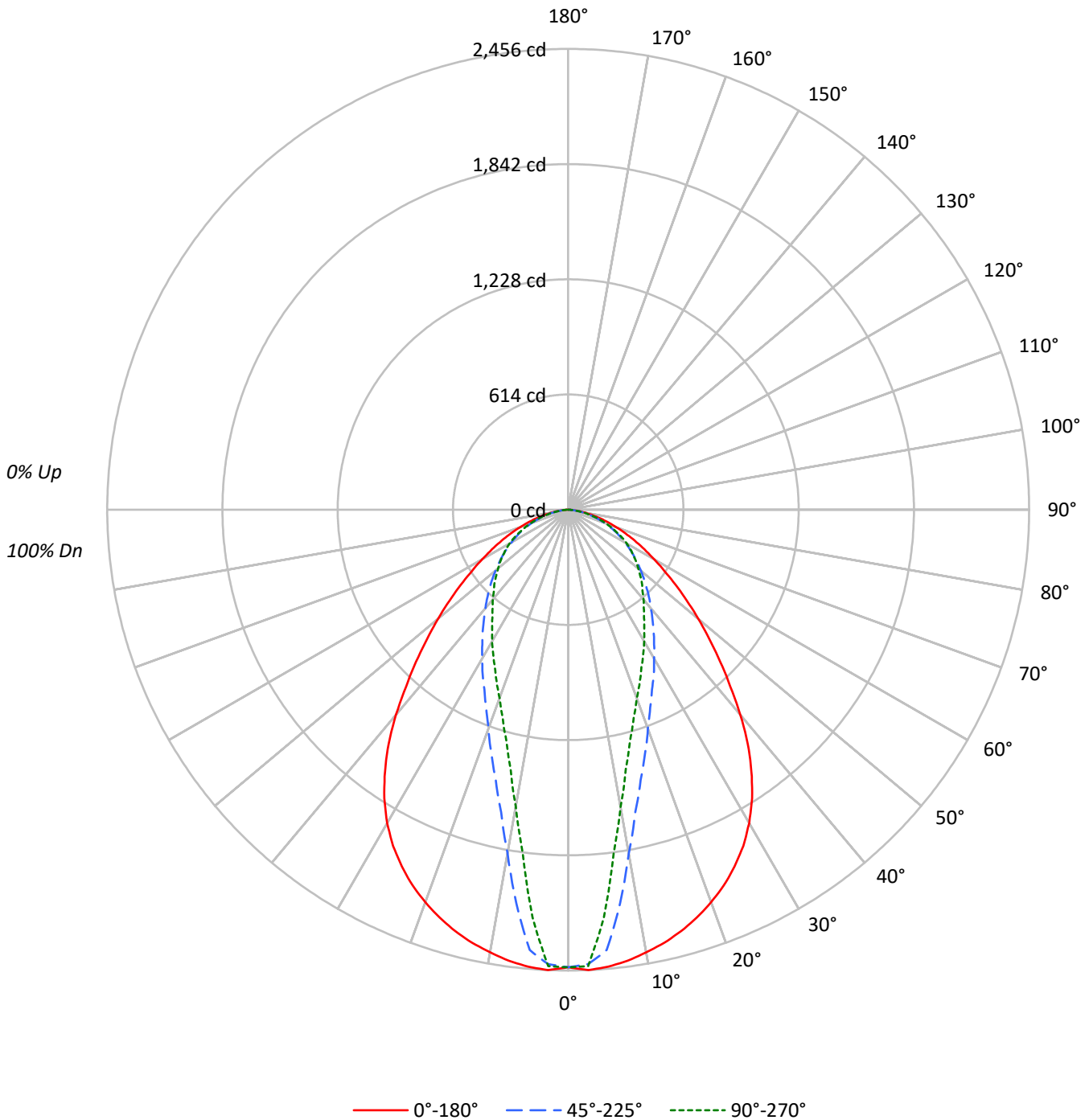
Lumens per Lamp: N/A
Luminaire Lumens: 3276.7 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 0.5 / 0.8
Luminous Opening: Rectangular (W 0.15' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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°	46198	46198	46198
5°	46496	44801	41488
10°	46079	35777	30931
15°	45607	29241	24975
20°	44880	25031	21543
25°	43847	22096	19330
30°	42185	20035	17727
35°	39363	18357	16299
40°	35298	16956	15448
45°	30708	15848	14894
50°	26657	14885	14360
55°	23066	14075	13992
60°	20003	13255	13641
65°	17506	12431	12889
70°	15078	11417	11838
75°	12569	10058	10431
80°	9852	8183	7910
85°	6087	5261	5261

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 30708 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.9	6.4
10°-20°	462.9	14.1
20°-30°	568.0	17.3
30°-40°	587.0	17.9
40°-50°	530.1	16.2
50°-60°	429.6	13.1
60°-70°	301.1	9.2
70°-80°	155.3	4.7
80°-90°	32.8	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°	1240.8	37.9
0°-40°	1827.8	55.8
0°-60°	2787.5	85.1
0°-90°	3276.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3276.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2438	2438	2438	2438	2438	
5°	2445	2440	2356	2250	2182	232
15°	2325	1960	1491	1329	1273	655
25°	2098	1393	1057	956	925	964
35°	1702	1029	794	726	705	1058
45°	1146	742	592	558	556	887
55°	698	508	426	421	424	629
65°	390	313	277	284	288	390
75°	172	148	137	141	142	185
85°	28	24	24	24	24	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2438.4	2438.4	2438.4	2438.4	2438.4
2.5°	2456.2	2447.3	2424.4	2446.1	2434.6
5°	2444.8	2439.7	2355.7	2250.2	2181.5
7.5°	2424.4	2406.6	2116.6	1916.9	1849.5
10°	2395.2	2306.1	1859.7	1673.9	1607.8
12.5°	2364.6	2154.8	1652.3	1478.1	1418.3
15°	2325.2	1960.1	1490.8	1329.2	1273.3
17.5°	2279.4	1791.0	1362.3	1207.1	1162.6
20°	2226.0	1644.7	1241.5	1105.4	1068.5
22.5°	2167.5	1521.3	1141.0	1030.3	996.0
25°	2097.5	1392.8	1057.0	956.5	924.7
27.5°	2019.9	1294.9	987.1	892.9	866.2
30°	1928.3	1199.5	915.8	831.9	810.3
32.5°	1824.0	1110.5	852.2	778.5	753.0
35°	1701.9	1029.0	793.7	726.3	704.7
37.5°	1572.2	948.9	737.8	679.2	661.4
40°	1427.2	879.0	685.6	633.5	624.6
42.5°	1278.4	809.0	638.5	594.0	586.4
45°	1146.1	741.6	591.5	558.4	555.9
47.5°	1017.6	680.5	548.2	522.8	520.2
50°	904.4	616.9	505.0	488.4	487.2
52.5°	796.3	561.0	464.3	455.4	457.9
55°	698.3	507.5	426.1	421.0	423.6
57.5°	608.0	457.9	388.0	389.2	393.0
60°	527.9	407.0	349.8	354.9	360.0
62.5°	457.9	360.0	312.9	320.5	325.6
65°	390.5	312.9	277.3	283.7	287.5
67.5°	330.7	268.4	241.7	249.3	250.6
70°	272.2	227.7	206.1	213.7	213.7
72.5°	221.3	185.7	171.7	175.5	176.8
75°	171.7	147.6	137.4	141.2	142.5
77.5°	129.7	111.9	104.3	108.1	106.8
80°	90.3	78.9	75.0	73.8	72.5
82.5°	56.0	49.6	45.8	47.1	45.8
85°	28.0	24.2	24.2	24.2	24.2
87.5°	8.9	8.9	8.9	8.9	8.9
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	21.81	23.31	22.18	23.63	23.94	20.31	21.81	20.68	22.13	22.44
	3H	23.40	24.75	23.78	25.07	25.44	22.02	23.37	22.40	23.70	24.06
	4H	23.92	25.19	24.32	25.54	25.92	22.61	23.87	23.01	24.22	24.60
	6H	24.25	25.42	24.66	25.78	26.18	22.95	24.12	23.37	24.49	24.88
	8H	24.33	25.44	24.75	25.83	26.23	23.03	24.14	23.46	24.53	24.93
	12H	24.35	25.41	24.78	25.80	26.23	23.06	24.12	23.49	24.50	24.93
4H	2H	22.12	23.39	22.52	23.74	24.11	20.87	22.13	21.27	22.48	22.86
	3H	23.90	24.95	24.32	25.35	25.75	22.79	23.84	23.20	24.24	24.64
	4H	24.53	25.48	24.97	25.89	26.33	23.48	24.43	23.92	24.84	25.28
	6H	24.97	25.79	25.43	26.23	26.69	23.94	24.76	24.39	25.20	25.66
	8H	25.07	25.84	25.54	26.28	26.75	24.04	24.81	24.50	25.25	25.72
	12H	25.13	25.81	25.61	26.29	26.76	24.09	24.78	24.58	25.26	25.73
8H	4H	24.68	25.45	25.15	25.89	26.36	23.72	24.49	24.19	24.93	25.40
	6H	25.19	25.82	25.69	26.31	26.79	24.26	24.89	24.76	25.39	25.86
	8H	25.34	25.90	25.85	26.41	26.90	24.41	24.98	24.93	25.49	25.98
	12H	25.43	25.92	25.94	26.42	26.98	24.51	25.01	25.02	25.50	26.06
12H	4H	24.68	25.37	25.16	25.84	26.32	23.74	24.42	24.22	24.90	25.37
	6H	25.19	25.76	25.71	26.27	26.76	24.28	24.85	24.80	25.36	25.85
	8H	25.38	25.88	25.89	26.37	26.93	24.48	24.97	24.99	25.47	26.03