

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: P1217291

Luminaire Tested: S122DRP-H675D950-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217291
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-H675D950-X4F0-XX-UDD-G-W
Description: DEFINE 2, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

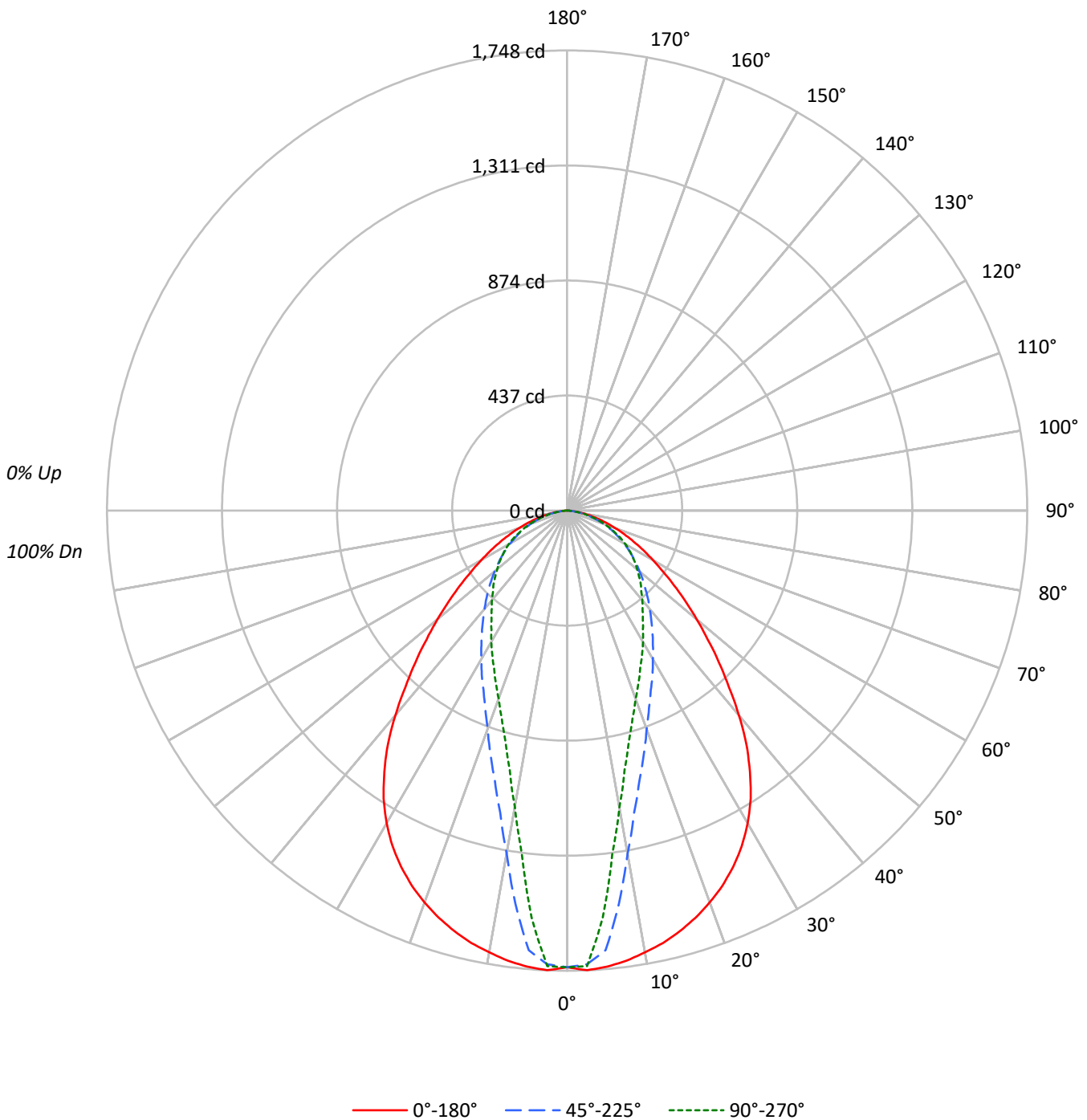
Lumens per Lamp: N/A
Luminaire Lumens: 2331.2 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 0.5 / 0.8
Luminous Opening: Rectangular (W 0.15' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	32867	32867	32867
5°	33078	31875	29516
10°	32782	25452	22006
15°	32448	20803	17768
20°	31930	17807	15327
25°	31196	15720	13753
30°	30013	14255	12612
35°	28004	13061	11594
40°	25113	12064	10988
45°	21847	11275	10597
50°	18964	10590	10216
55°	16410	10015	9956
60°	14232	9431	9704
65°	12454	8845	9168
70°	10730	8121	8420
75°	8945	7152	7423
80°	7015	5826	5630
85°	4326	3739	3739

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21847 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	6.4
10°-20°	329.3	14.1
20°-30°	404.1	17.3
30°-40°	417.6	17.9
40°-50°	377.1	16.2
50°-60°	305.6	13.1
60°-70°	214.2	9.2
70°-80°	110.5	4.7
80°-90°	23.3	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°	882.8	37.9
0°-40°	1300.4	55.8
0°-60°	1983.2	85.1
0°-90°	2331.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2331.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1739	1736	1676	1601	1552	165
15°	1654	1394	1061	946	906	466
25°	1492	991	752	680	658	686
35°	1211	732	565	517	501	753
45°	815	528	421	397	396	631
55°	497	361	303	300	301	447
65°	278	223	197	202	204	278
75°	122	105	98	100	101	132
85°	20	17	17	17	17	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.8	1734.8	1734.8	1734.8	1734.8
2.5°	1747.5	1741.1	1724.9	1740.2	1732.1
5°	1739.3	1735.7	1676.0	1600.9	1552.0
7.5°	1724.9	1712.2	1505.9	1363.8	1315.8
10°	1704.0	1640.7	1323.0	1190.9	1143.9
12.5°	1682.3	1533.0	1175.5	1051.6	1009.0
15°	1654.3	1394.5	1060.6	945.7	905.9
17.5°	1621.7	1274.2	969.2	858.8	827.1
20°	1583.7	1170.1	883.2	786.4	760.2
22.5°	1542.0	1082.3	811.7	733.0	708.6
25°	1492.3	990.9	752.0	680.5	657.9
27.5°	1437.1	921.2	702.2	635.3	616.3
30°	1371.9	853.4	651.6	591.8	576.5
32.5°	1297.7	790.0	606.3	553.8	535.7
35°	1210.8	732.1	564.7	516.7	501.3
37.5°	1118.5	675.1	524.9	483.2	470.6
40°	1015.4	625.3	487.8	450.7	444.3
42.5°	909.5	575.6	454.3	422.6	417.2
45°	815.4	527.6	420.8	397.3	395.5
47.5°	724.0	484.2	390.0	371.9	370.1
50°	643.4	438.9	359.3	347.5	346.6
52.5°	566.5	399.1	330.3	324.0	325.8
55°	496.8	361.1	303.2	299.5	301.4
57.5°	432.6	325.8	276.0	276.9	279.6
60°	375.6	289.6	248.9	252.5	256.1
62.5°	325.8	256.1	222.6	228.0	231.7
65°	277.8	222.6	197.3	201.8	204.5
67.5°	235.3	190.9	171.9	177.4	178.3
70°	193.7	162.0	146.6	152.0	152.0
72.5°	157.5	132.1	122.2	124.9	125.8
75°	122.2	105.0	97.7	100.5	101.4
77.5°	92.3	79.6	74.2	76.9	76.0
80°	64.3	56.1	53.4	52.5	51.6
82.5°	39.8	35.3	32.6	33.5	32.6
85°	19.9	17.2	17.2	17.2	17.2
87.5°	6.3	6.3	6.3	6.3	6.3
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	20.63	22.13	21.00	22.45	22.76	19.13	20.63	19.49	20.94	21.26
	3H	22.22	23.56	22.60	23.89	24.25	20.84	22.19	21.22	22.52	22.88
	4H	22.74	24.01	23.14	24.35	24.73	21.42	22.69	21.82	23.03	23.41
	6H	23.07	24.24	23.48	24.60	24.99	21.77	22.94	22.18	23.30	23.70
	8H	23.14	24.25	23.57	24.64	25.04	21.85	22.96	22.27	23.35	23.75
	12H	23.17	24.23	23.60	24.61	25.04	21.88	22.94	22.31	23.32	23.75
4H	2H	20.94	22.20	21.34	22.55	22.93	19.69	20.95	20.09	21.30	21.68
	3H	22.72	23.77	23.13	24.17	24.57	21.61	22.65	22.02	23.06	23.46
	4H	23.35	24.30	23.78	24.71	25.15	22.30	23.25	22.73	23.66	24.10
	6H	23.79	24.61	24.24	25.05	25.51	22.75	23.57	23.21	24.02	24.48
	8H	23.89	24.66	24.36	25.10	25.57	22.86	23.62	23.32	24.07	24.54
	12H	23.94	24.63	24.43	25.11	25.58	22.91	23.59	23.39	24.07	24.54
8H	4H	23.50	24.27	23.97	24.71	25.18	22.54	23.31	23.01	23.75	24.22
	6H	24.01	24.64	24.51	25.13	25.61	23.08	23.71	23.58	24.20	24.68
	8H	24.16	24.72	24.67	25.23	25.72	23.23	23.80	23.75	24.31	24.79
	12H	24.24	24.74	24.75	25.23	25.80	23.33	23.82	23.84	24.32	24.88
12H	4H	23.50	24.18	23.98	24.66	25.13	22.55	23.24	23.04	23.72	24.19
	6H	24.01	24.58	24.53	25.09	25.58	23.10	23.67	23.62	24.18	24.67
	8H	24.20	24.69	24.71	25.19	25.75	23.29	23.79	23.80	24.28	24.85