

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: P1217521

Luminaire Tested: S125DRP-S865D927-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217521
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2511-596-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DRP-S865D927-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

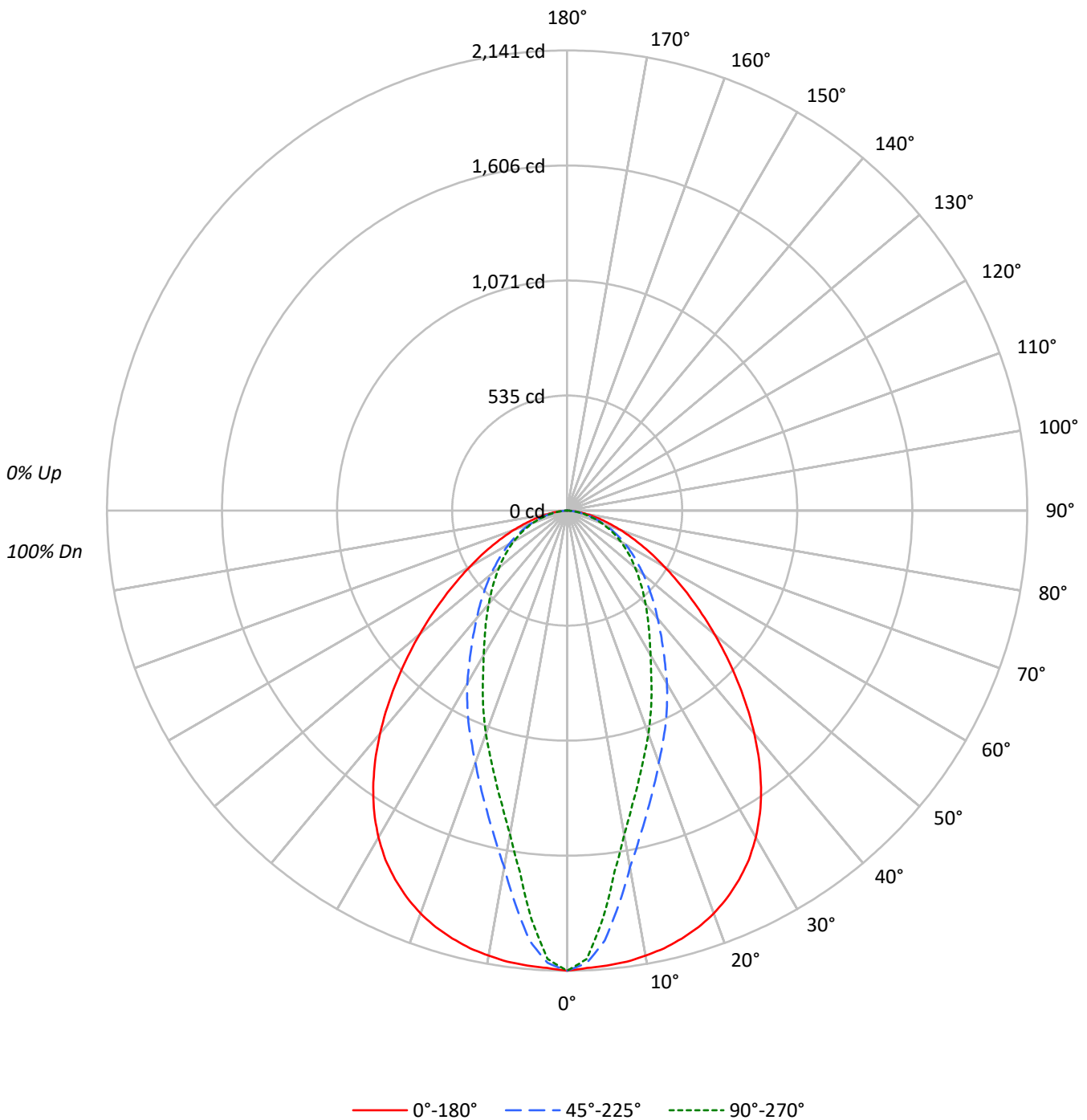
Lumens per Lamp: N/A
Luminaire Lumens: 3049.2 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
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

TEST NUMBER: P1217521

CATALOG NUMBER: S125DRP-S865D927-X4F0-XX-UDD-G-W

Luminous Intensity Polar Plot





TEST NUMBER: P1217521

CATALOG NUMBER: S125DRP-S865D927-X4F0-XX-UDD-G-W

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	94	92	92	90	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	64	60	68	63	59	57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	62	49	42	37	60	49	41	36	48	41	36	47	40	36	46	40	36	34
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15134	15134	15134
5°	15080	14246	13529
10°	15093	12096	10976
15°	15087	10574	9455
20°	15007	9387	8311
25°	14772	8472	7241
30°	14331	7578	6330
35°	13578	6692	5718
40°	12502	6034	5237
45°	11201	5518	4851
50°	9842	5099	4539
55°	8554	4735	4289
60°	7387	4407	4061
65°	6361	4100	3821
70°	5451	3747	3526
75°	4550	3267	3133
80°	3591	2675	2593
85°	2304	1825	1825

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11201 cd/sqm



TEST NUMBER: P1217521

CATALOG NUMBER: S125DRP-S865D927-X4F0-XX-UDD-G-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.7	6.0
10°-20°	433.9	14.2
20°-30°	551.3	18.1
30°-40°	561.5	18.4
40°-50°	496.7	16.3
50°-60°	389.3	12.8
60°-70°	265.5	8.7
70°-80°	136.7	4.5
80°-90°	30.6	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°	1169.0	38.3
0°-40°	1730.5	56.8
0°-60°	2616.4	85.8
0°-90°	3049.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3049.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2141	2141	2141	2141	2141	
5°	2125	2114	2008	1929	1906	202
15°	2061	1744	1445	1316	1292	582
25°	1894	1345	1086	957	928	870
35°	1573	1018	775	677	663	979
45°	1120	720	552	492	485	864
55°	694	481	384	349	348	624
65°	380	293	245	226	228	381
75°	167	140	120	112	115	179
85°	28	26	22	21	22	37
90°	0	0	0	0	0	



TEST NUMBER: P1217521

CATALOG NUMBER: S125DRP-S865D927-X4F0-XX-UDD-G-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2140.8	2140.8	2140.8	2140.8	2140.8
2.5°	2130.0	2146.7	2106.5	2095.7	2087.9
5°	2125.1	2114.3	2007.5	1929.1	1906.5
7.5°	2117.3	2057.5	1846.7	1713.4	1692.8
10°	2102.6	1968.3	1685.0	1554.6	1529.1
12.5°	2085.9	1861.4	1557.6	1425.2	1400.7
15°	2061.4	1743.8	1444.8	1316.4	1291.9
17.5°	2032.0	1632.1	1342.9	1216.5	1192.9
20°	1994.8	1530.1	1247.8	1128.2	1104.7
22.5°	1948.7	1434.1	1163.5	1041.0	1015.5
25°	1893.8	1344.9	1086.1	956.7	928.3
27.5°	1831.1	1259.6	1006.7	872.4	845.0
30°	1755.6	1176.3	928.3	797.9	775.4
32.5°	1670.3	1095.9	847.9	733.2	714.6
35°	1573.3	1017.5	775.4	677.3	662.6
37.5°	1467.4	940.0	712.6	625.4	612.6
40°	1354.7	864.6	653.8	577.4	567.5
42.5°	1238.0	792.0	602.8	534.2	525.4
45°	1120.4	720.5	551.9	492.1	485.2
47.5°	1005.7	654.8	506.8	453.8	448.0
50°	894.9	593.0	463.6	416.6	412.7
52.5°	791.0	535.2	421.5	382.3	380.3
55°	694.0	481.3	384.2	349.0	348.0
57.5°	604.8	430.3	347.0	316.6	316.6
60°	522.5	382.3	311.7	285.2	287.2
62.5°	448.9	336.2	278.4	255.8	257.8
65°	380.3	293.1	245.1	226.4	228.4
67.5°	318.6	251.9	212.7	197.0	199.0
70°	263.7	212.7	181.3	167.6	170.6
72.5°	212.7	176.4	150.0	139.2	142.1
75°	166.6	140.2	119.6	111.7	114.7
77.5°	125.5	106.8	92.1	85.3	88.2
80°	88.2	76.5	65.7	60.8	63.7
82.5°	54.9	49.0	43.1	39.2	41.2
85°	28.4	26.5	22.5	20.6	22.5
87.5°	9.8	9.8	8.8	7.8	8.8
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1217521

CATALOG NUMBER: S125DRP-S865D927-X4F0-XX-UDD-G-W

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	18.32	19.80	18.68	20.12	20.43	15.70	17.19	16.07	17.50	17.82
	3H	19.90	21.24	20.28	21.56	21.93	17.35	18.68	17.72	19.01	19.37
	4H	20.44	21.69	20.84	22.03	22.41	17.92	19.17	18.32	19.52	19.90
	6H	20.77	21.93	21.19	22.29	22.69	18.29	19.45	18.71	19.81	20.21
	8H	20.85	21.95	21.28	22.34	22.74	18.39	19.49	18.82	19.88	20.28
	12H	20.88	21.93	21.31	22.32	22.75	18.44	19.49	18.87	19.87	20.30
4H	2H	18.56	19.81	18.96	20.16	20.53	16.39	17.64	16.79	17.99	18.37
	3H	20.34	21.38	20.75	21.78	22.18	18.21	19.24	18.62	19.64	20.05
	4H	20.99	21.92	21.42	22.34	22.77	18.87	19.80	19.30	20.22	20.66
	6H	21.44	22.25	21.90	22.69	23.15	19.34	20.15	19.80	20.59	21.05
	8H	21.55	22.31	22.02	22.76	23.22	19.46	20.22	19.93	20.66	21.13
	12H	21.62	22.29	22.10	22.77	23.24	19.53	20.21	20.01	20.68	21.16
8H	4H	21.09	21.85	21.56	22.30	22.76	19.17	19.93	19.63	20.37	20.84
	6H	21.62	22.25	22.12	22.74	23.22	19.72	20.34	20.22	20.83	21.31
	8H	21.78	22.34	22.30	22.85	23.34	19.89	20.45	20.40	20.96	21.45
	12H	21.89	22.38	22.40	22.88	23.44	20.00	20.49	20.51	20.99	21.55
12H	4H	21.09	21.76	21.57	22.24	22.71	19.19	19.87	19.68	20.35	20.82
	6H	21.62	22.18	22.13	22.69	23.18	19.76	20.32	20.27	20.83	21.32
	8H	21.82	22.31	22.33	22.80	23.37	19.97	20.46	20.48	20.96	21.52