

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: P1217503

Luminaire Tested: S125DRP-S485D927-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217503
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-S485D927-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

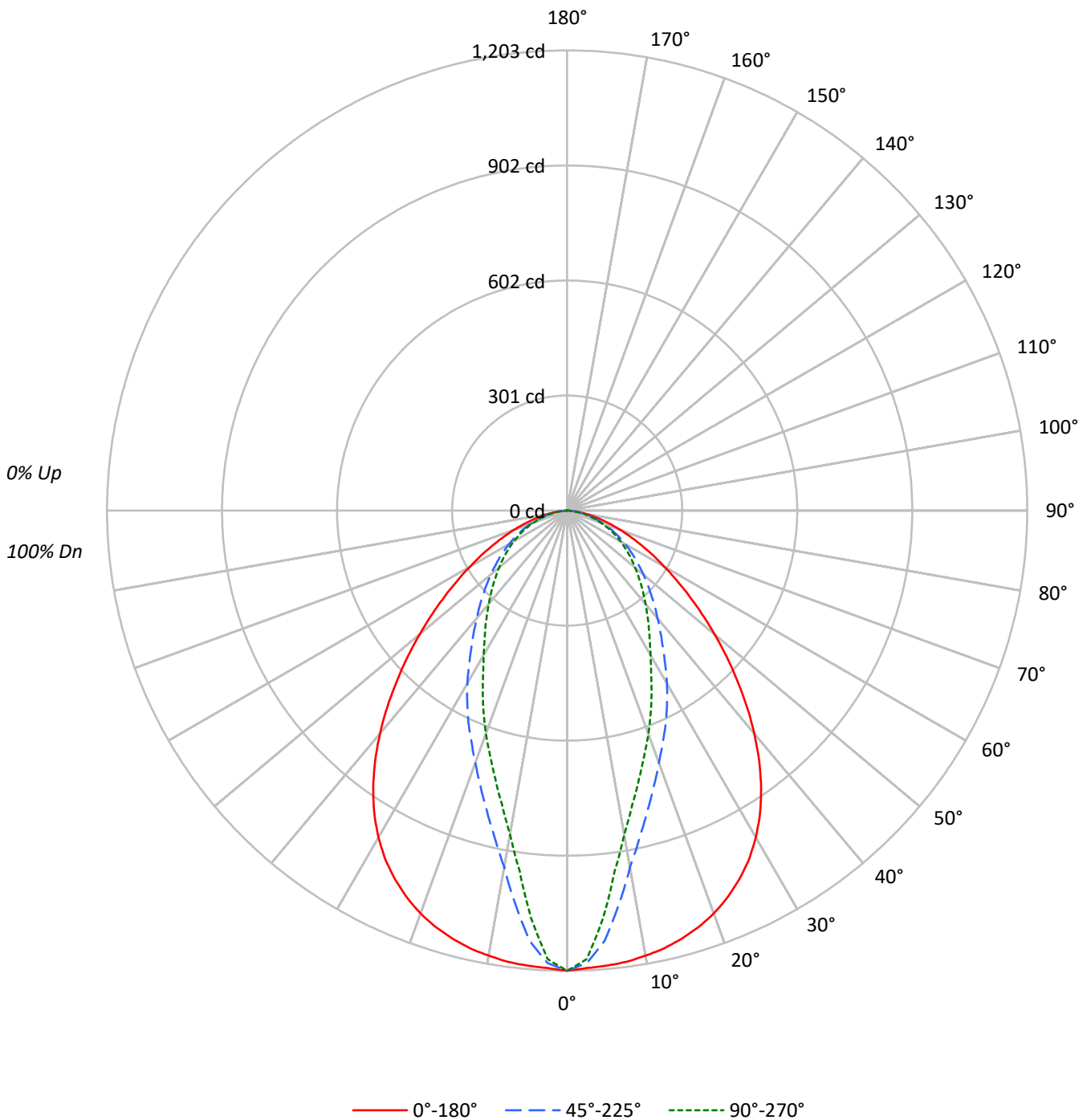
Lumens per Lamp: N/A
Luminaire Lumens: 1713.5 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 19.1
Input Voltage (V): 120
Input Current (A_{in}): 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	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°	8504	8504	8504
5°	8474	8005	7603
10°	8481	6797	6168
15°	8478	5942	5313
20°	8433	5275	4670
25°	8301	4760	4069
30°	8053	4258	3557
35°	7630	3760	3214
40°	7026	3391	2943
45°	6294	3100	2726
50°	5531	2865	2550
55°	4807	2661	2410
60°	4151	2477	2282
65°	3575	2303	2146
70°	3063	2106	1980
75°	2557	1835	1759
80°	2019	1502	1457
85°	1298	1030	1030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6294 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	6.0
10°-20°	243.9	14.2
20°-30°	309.8	18.1
30°-40°	315.5	18.4
40°-50°	279.1	16.3
50°-60°	218.7	12.8
60°-70°	149.2	8.7
70°-80°	76.8	4.5
80°-90°	17.2	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°	656.9	38.3
0°-40°	972.5	56.8
0°-60°	1470.3	85.8
0°-90°	1713.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1713.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1203	1203	1203	1203	1203	
5°	1194	1188	1128	1084	1071	114
15°	1158	980	812	740	726	327
25°	1064	756	610	538	522	489
35°	884	572	436	381	372	550
45°	630	405	310	276	273	486
55°	390	270	216	196	196	351
65°	214	165	138	127	128	214
75°	94	79	67	63	64	101
85°	16	15	13	12	13	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1203.0	1203.0	1203.0	1203.0	1203.0
2.5°	1197.0	1206.3	1183.7	1177.7	1173.3
5°	1194.2	1188.2	1128.1	1084.0	1071.4
7.5°	1189.8	1156.2	1037.8	962.9	951.3
10°	1181.5	1106.1	946.9	873.6	859.3
12.5°	1172.2	1046.0	875.3	800.9	787.1
15°	1158.4	979.9	811.9	739.8	726.0
17.5°	1141.9	917.1	754.6	683.6	670.4
20°	1121.0	859.9	701.2	634.0	620.8
22.5°	1095.1	805.9	653.8	585.0	570.7
25°	1064.2	755.7	610.3	537.6	521.6
27.5°	1029.0	707.8	565.7	490.2	474.8
30°	986.5	661.0	521.6	448.4	435.7
32.5°	938.6	615.8	476.5	412.0	401.6
35°	884.1	571.8	435.7	380.6	372.4
37.5°	824.6	528.3	400.5	351.4	344.3
40°	761.3	485.8	367.4	324.4	318.9
42.5°	695.7	445.1	338.8	300.2	295.2
45°	629.6	404.9	310.1	276.5	272.7
47.5°	565.2	368.0	284.8	255.0	251.7
50°	502.9	333.3	260.5	234.1	231.9
52.5°	444.5	300.8	236.9	214.8	213.7
55°	390.0	270.5	215.9	196.1	195.5
57.5°	339.9	241.8	195.0	177.9	177.9
60°	293.6	214.8	175.2	160.3	161.4
62.5°	252.3	188.9	156.4	143.8	144.9
65°	213.7	164.7	137.7	127.2	128.3
67.5°	179.0	141.6	119.5	110.7	111.8
70°	148.2	119.5	101.9	94.2	95.8
72.5°	119.5	99.2	84.3	78.2	79.9
75°	93.6	78.8	67.2	62.8	64.4
77.5°	70.5	60.0	51.8	47.9	49.6
80°	49.6	43.0	36.9	34.2	35.8
82.5°	30.8	27.5	24.2	22.0	23.1
85°	16.0	14.9	12.7	11.6	12.7
87.5°	5.5	5.5	5.0	4.4	5.0
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	16.31	17.80	16.68	18.11	18.43	13.70	15.19	14.06	15.50	15.81
	3H	17.90	19.23	18.28	19.56	19.92	15.34	16.67	15.72	17.00	17.36
	4H	18.43	19.68	18.83	20.03	20.41	15.92	17.17	16.32	17.51	17.89
	6H	18.77	19.92	19.18	20.29	20.68	16.29	17.44	16.70	17.81	18.20
	8H	18.85	19.95	19.28	20.34	20.74	16.39	17.48	16.81	17.87	18.28
	12H	18.88	19.93	19.31	20.31	20.74	16.43	17.48	16.86	17.87	18.29
4H	2H	16.55	17.80	16.95	18.15	18.53	14.39	15.63	14.79	15.98	16.36
	3H	18.34	19.37	18.75	19.77	20.18	16.20	17.24	16.62	17.64	18.04
	4H	18.98	19.92	19.42	20.33	20.77	16.87	17.80	17.30	18.22	18.66
	6H	19.44	20.25	19.90	20.69	21.15	17.34	18.14	17.79	18.59	19.05
	8H	19.55	20.31	20.02	20.75	21.22	17.46	18.21	17.92	18.66	19.13
	12H	19.61	20.29	20.10	20.77	21.24	17.53	18.20	18.01	18.68	19.15
8H	4H	19.09	19.85	19.56	20.29	20.76	17.17	17.92	17.63	18.37	18.83
	6H	19.62	20.24	20.12	20.74	21.21	17.72	18.34	18.21	18.83	19.31
	8H	19.78	20.34	20.30	20.85	21.34	17.89	18.44	18.40	18.95	19.44
	12H	19.89	20.38	20.40	20.87	21.44	18.00	18.49	18.51	18.98	19.55
12H	4H	19.08	19.76	19.57	20.24	20.71	17.19	17.86	17.67	18.34	18.82
	6H	19.61	20.17	20.13	20.68	21.17	17.76	18.31	18.27	18.83	19.31
	8H	19.81	20.31	20.33	20.80	21.37	17.97	18.46	18.48	18.95	19.52