

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: P1217504

Luminaire Tested: S125DRP-S485D930-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217504
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-S485D930-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

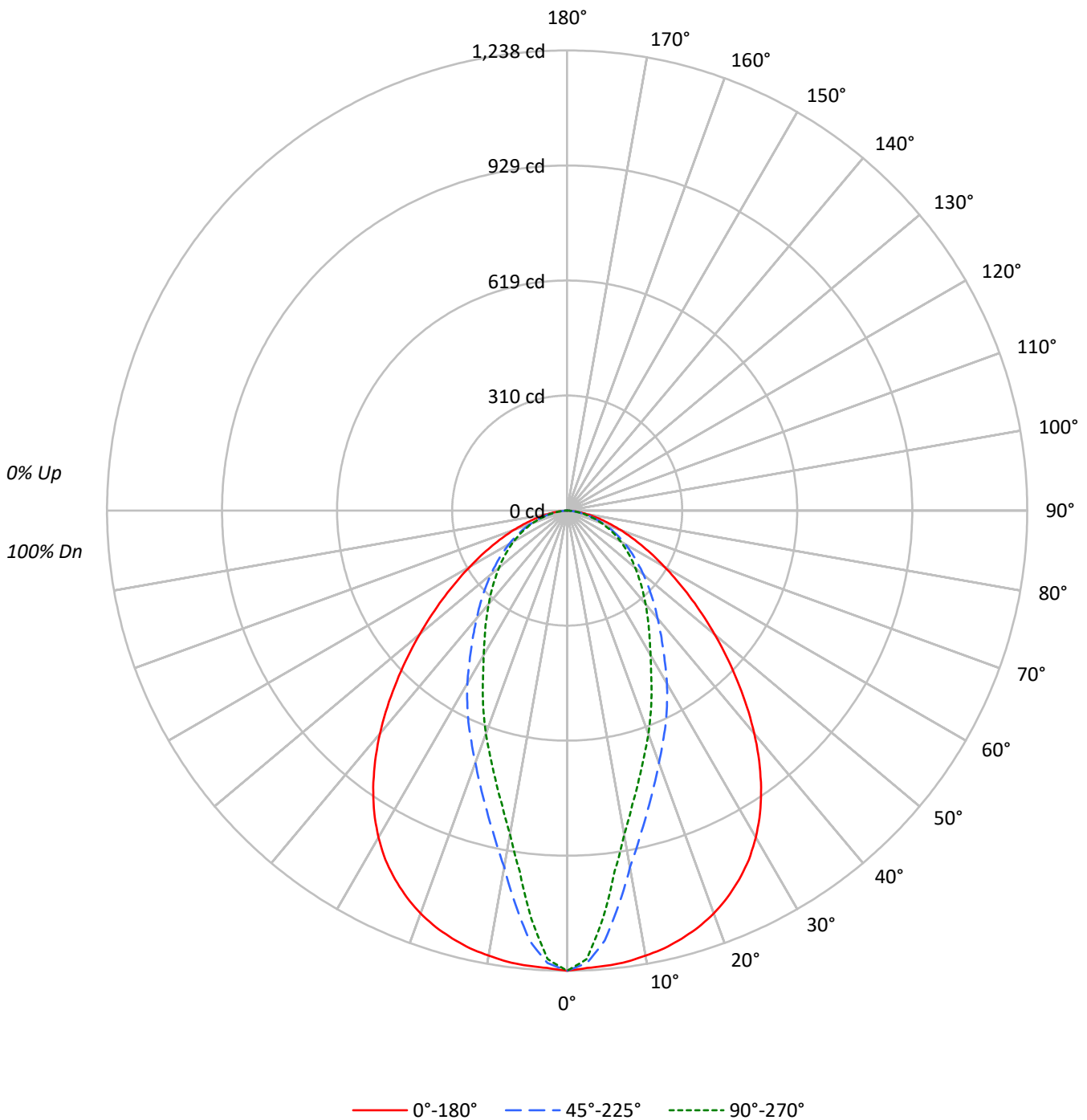
Lumens per Lamp: N/A
Luminaire Lumens: 1763.5 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1217504

CATALOG NUMBER: S125DRP-S485D930-X4F0-XX-UDD-G-W

Luminous Intensity Polar Plot





TEST NUMBER: P1217504

CATALOG NUMBER: S125DRP-S485D930-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°	8753	8753	8753
5°	8722	8239	7824
10°	8729	6995	6349
15°	8725	6116	5469
20°	8679	5429	4806
25°	8544	4899	4188
30°	8288	4383	3660
35°	7852	3870	3307
40°	7230	3489	3029
45°	6478	3191	2805
50°	5693	2949	2625
55°	4947	2739	2481
60°	4273	2549	2348
65°	3680	2370	2210
70°	3152	2168	2038
75°	2633	1890	1811
80°	2076	1547	1498
85°	1330	1054	1054

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6478 cd/sqm



TEST NUMBER: P1217504

CATALOG NUMBER: S125DRP-S485D930-X4F0-XX-UDD-G-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	6.0
10°-20°	251.0	14.2
20°-30°	318.9	18.1
30°-40°	324.7	18.4
40°-50°	287.3	16.3
50°-60°	225.1	12.8
60°-70°	153.5	8.7
70°-80°	79.1	4.5
80°-90°	17.7	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°	676.1	38.3
0°-40°	1000.8	56.8
0°-60°	1513.2	85.8
0°-90°	1763.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1763.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1229	1223	1161	1116	1103	117
15°	1192	1008	836	761	747	336
25°	1095	778	628	553	537	503
35°	910	588	448	392	383	566
45°	648	417	319	285	281	500
55°	401	278	222	202	201	361
65°	220	170	142	131	132	220
75°	96	81	69	65	66	104
85°	16	15	13	12	13	22
90°	0	0	0	0	0	



TEST NUMBER: P1217504

CATALOG NUMBER: S125DRP-S485D930-X4F0-XX-UDD-G-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1238.1	1238.1	1238.1	1238.1	1238.1
2.5°	1231.9	1241.5	1218.3	1212.1	1207.5
5°	1229.1	1222.8	1161.0	1115.7	1102.6
7.5°	1224.5	1189.9	1068.1	991.0	979.1
10°	1216.0	1138.4	974.5	899.1	884.4
12.5°	1206.4	1076.6	900.8	824.3	810.1
15°	1192.2	1008.5	835.6	761.4	747.2
17.5°	1175.2	943.9	776.7	703.5	689.9
20°	1153.7	884.9	721.7	652.5	638.9
22.5°	1127.0	829.4	672.9	602.1	587.3
25°	1095.3	777.8	628.1	553.3	536.9
27.5°	1059.0	728.5	582.2	504.6	488.7
30°	1015.3	680.3	536.9	461.5	448.4
32.5°	966.0	633.8	490.4	424.0	413.3
35°	909.9	588.5	448.4	391.7	383.2
37.5°	848.7	543.7	412.1	361.7	354.3
40°	783.5	500.0	378.1	333.9	328.2
42.5°	716.0	458.1	348.6	309.0	303.9
45°	648.0	416.7	319.2	284.6	280.6
47.5°	581.7	378.7	293.1	262.5	259.1
50°	517.6	343.0	268.1	240.9	238.7
52.5°	457.5	309.5	243.8	221.1	220.0
55°	401.4	278.4	222.2	201.8	201.3
57.5°	349.8	248.9	200.7	183.1	183.1
60°	302.2	221.1	180.3	165.0	166.1
62.5°	259.6	194.5	161.0	148.0	149.1
65°	220.0	169.5	141.7	131.0	132.1
67.5°	184.2	145.7	123.0	113.9	115.1
70°	152.5	123.0	104.9	96.9	98.6
72.5°	123.0	102.0	86.7	80.5	82.2
75°	96.4	81.1	69.2	64.6	66.3
77.5°	72.6	61.8	53.3	49.3	51.0
80°	51.0	44.2	38.0	35.1	36.8
82.5°	31.7	28.3	24.9	22.7	23.8
85°	16.4	15.3	13.0	11.9	13.0
87.5°	5.7	5.7	5.1	4.5	5.1
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1217504
 CATALOG NUMBER: S125DRP-S485D930-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	16.41	17.90	16.78	18.21	18.53	13.80	15.29	14.16	15.60	15.91
	3H	18.00	19.33	18.38	19.66	20.02	15.44	16.77	15.82	17.10	17.46
	4H	18.53	19.78	18.93	20.13	20.51	16.02	17.27	16.42	17.61	17.99
	6H	18.87	20.02	19.28	20.39	20.78	16.39	17.54	16.80	17.91	18.30
	8H	18.95	20.05	19.38	20.44	20.84	16.49	17.58	16.91	17.97	18.38
	12H	18.98	20.03	19.41	20.41	20.84	16.53	17.58	16.96	17.96	18.39
4H	2H	16.66	17.90	17.06	18.25	18.63	14.49	15.73	14.89	16.08	16.46
	3H	18.44	19.47	18.85	19.87	20.28	16.30	17.34	16.71	17.74	18.14
	4H	19.08	20.02	19.52	20.43	20.87	16.97	17.90	17.40	18.32	18.76
	6H	19.54	20.35	20.00	20.79	21.25	17.43	18.24	17.89	18.69	19.15
	8H	19.65	20.41	20.12	20.85	21.32	17.56	18.31	18.02	18.76	19.23
	12H	19.71	20.39	20.20	20.87	21.34	17.63	18.30	18.11	18.78	19.25
8H	4H	19.19	19.95	19.66	20.39	20.86	17.27	18.02	17.73	18.47	18.93
	6H	19.72	20.34	20.22	20.84	21.31	17.82	18.44	18.31	18.93	19.41
	8H	19.88	20.44	20.40	20.95	21.44	17.98	18.54	18.50	19.05	19.54
	12H	19.99	20.48	20.50	20.97	21.54	18.10	18.59	18.61	19.08	19.65
12H	4H	19.18	19.86	19.67	20.34	20.81	17.29	17.96	17.77	18.44	18.92
	6H	19.72	20.27	20.23	20.78	21.27	17.85	18.41	18.37	18.92	19.41
	8H	19.91	20.41	20.43	20.90	21.47	18.07	18.56	18.58	19.05	19.62