

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: P1217505

Luminaire Tested: S125DRP-S485D935-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217505
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-S485D935-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

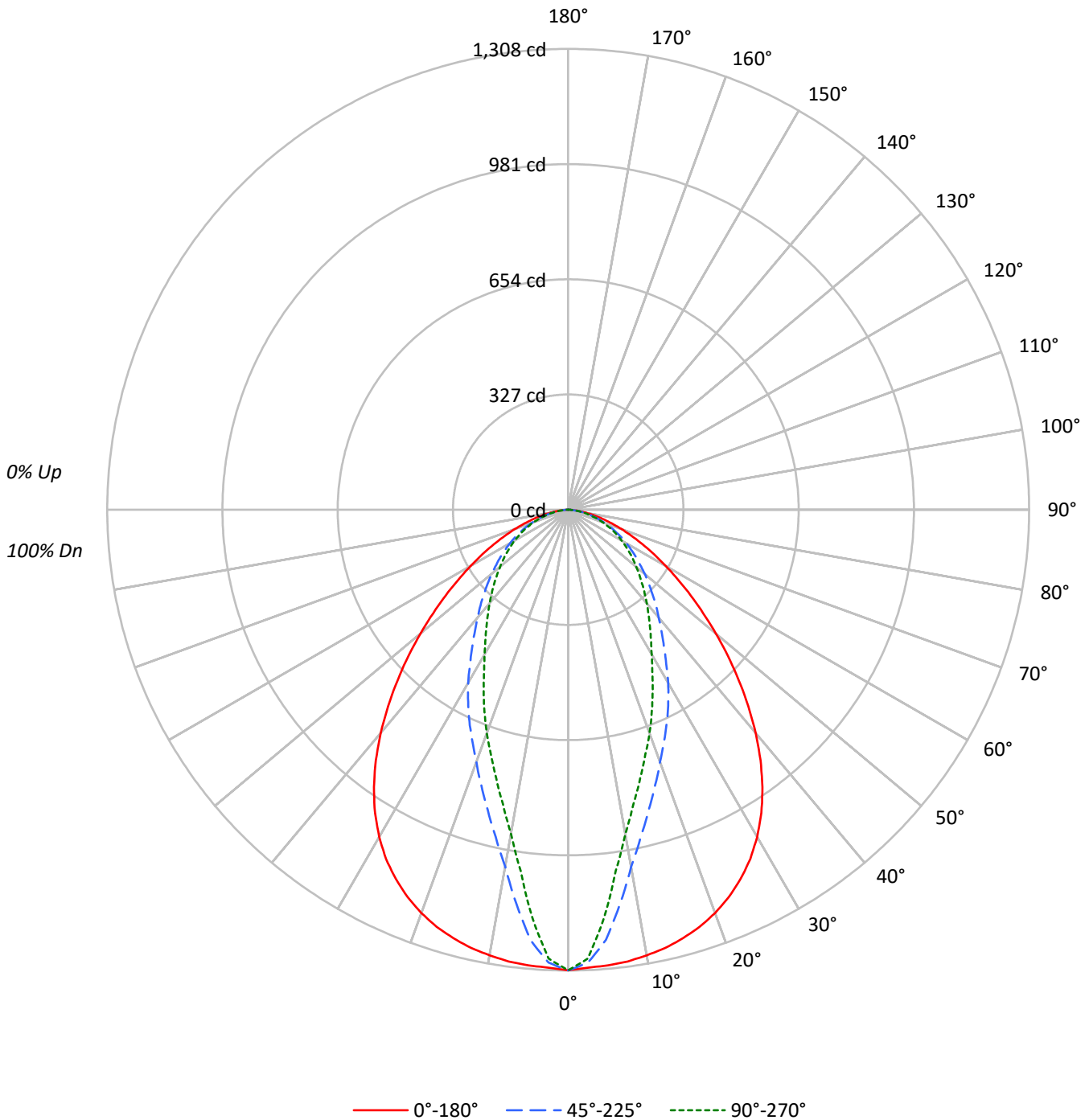
Lumens per Lamp: N/A
Luminaire Lumens: 1862.3 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 19.1
Input Voltage (V): 120
Input Current (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: P1217505

CATALOG NUMBER: S125DRP-S485D935-X4F0-XX-UDD-G-W

Luminous Intensity Polar Plot





TEST NUMBER: P1217505

CATALOG NUMBER: S125DRP-S485D935-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	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	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°	9243	9243	9243
5°	9211	8701	8263
10°	9218	7387	6705
15°	9214	6459	5775
20°	9165	5733	5076
25°	9022	5174	4423
30°	8752	4628	3866
35°	8293	4087	3493
40°	7636	3685	3199
45°	6841	3370	2963
50°	6011	3115	2771
55°	5225	2893	2619
60°	4512	2692	2480
65°	3886	2504	2333
70°	3328	2290	2154
75°	2781	1994	1912
80°	2194	1632	1584
85°	1411	1119	1119

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6841 cd/sqm



TEST NUMBER: P1217505

CATALOG NUMBER: S125DRP-S485D935-X4F0-XX-UDD-G-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	6.0
10°-20°	265.0	14.2
20°-30°	336.7	18.1
30°-40°	342.9	18.4
40°-50°	303.3	16.3
50°-60°	237.7	12.8
60°-70°	162.1	8.7
70°-80°	83.5	4.5
80°-90°	18.7	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°	714.0	38.3
0°-40°	1056.9	56.8
0°-60°	1598.0	85.8
0°-90°	1862.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1862.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1298	1291	1226	1178	1164	124
15°	1259	1065	882	804	789	355
25°	1157	821	663	584	567	532
35°	961	621	474	414	405	598
45°	684	440	337	300	296	528
55°	424	294	235	213	212	381
65°	232	179	150	138	140	233
75°	102	86	73	68	70	110
85°	17	16	14	13	14	23
90°	0	0	0	0	0	



TEST NUMBER: P1217505

CATALOG NUMBER: S125DRP-S485D935-X4F0-XX-UDD-G-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1307.5	1307.5	1307.5	1307.5	1307.5
2.5°	1300.9	1311.1	1286.6	1280.0	1275.2
5°	1298.0	1291.4	1226.1	1178.2	1164.4
7.5°	1293.2	1256.6	1127.9	1046.5	1033.9
10°	1284.2	1202.2	1029.1	949.5	934.0
12.5°	1274.0	1136.9	951.3	870.5	855.5
15°	1259.0	1065.1	882.5	804.0	789.1
17.5°	1241.1	996.8	820.2	743.0	728.6
20°	1218.3	934.6	762.1	689.1	674.7
22.5°	1190.2	875.9	710.6	635.8	620.2
25°	1156.7	821.4	663.3	584.3	567.0
27.5°	1118.3	769.3	614.9	532.8	516.1
30°	1072.2	718.4	567.0	487.3	473.6
32.5°	1020.2	669.3	517.9	447.8	436.4
35°	960.9	621.4	473.6	413.7	404.7
37.5°	896.2	574.1	435.2	382.0	374.2
40°	827.4	528.0	399.3	352.6	346.6
42.5°	756.1	483.7	368.2	326.3	320.9
45°	684.3	440.0	337.1	300.5	296.4
47.5°	614.3	399.9	309.5	277.2	273.6
50°	546.6	362.2	283.2	254.4	252.0
52.5°	483.1	326.9	257.4	233.5	232.3
55°	423.9	294.0	234.7	213.1	212.5
57.5°	369.4	262.8	211.9	193.4	193.4
60°	319.1	233.5	190.4	174.2	175.4
62.5°	274.2	205.3	170.0	156.3	157.5
65°	232.3	179.0	149.7	138.3	139.5
67.5°	194.6	153.9	129.9	120.3	121.5
70°	161.0	129.9	110.8	102.4	104.2
72.5°	129.9	107.8	91.6	85.0	86.8
75°	101.8	85.6	73.0	68.3	70.0
77.5°	76.6	65.3	56.3	52.1	53.9
80°	53.9	46.7	40.1	37.1	38.9
82.5°	33.5	29.9	26.3	23.9	25.1
85°	17.4	16.2	13.8	12.6	13.8
87.5°	6.0	6.0	5.4	4.8	5.4
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1217505
 CATALOG NUMBER: S125DRP-S485D935-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	16.60	18.09	16.97	18.40	18.72	13.99	15.48	14.35	15.79	16.10
	3H	18.19	19.52	18.57	19.85	20.21	15.63	16.96	16.01	17.29	17.66
	4H	18.72	19.97	19.12	20.32	20.70	16.21	17.46	16.61	17.81	18.18
	6H	19.06	20.21	19.47	20.58	20.97	16.58	17.73	16.99	18.10	18.49
	8H	19.14	20.24	19.57	20.63	21.03	16.68	17.77	17.10	18.16	18.57
	12H	19.17	20.22	19.60	20.60	21.03	16.72	17.77	17.15	18.16	18.58
4H	2H	16.84	18.09	17.24	18.44	18.82	14.68	15.93	15.08	16.27	16.65
	3H	18.63	19.66	19.04	20.06	20.47	16.49	17.53	16.91	17.93	18.33
	4H	19.27	20.21	19.71	20.62	21.06	17.16	18.09	17.59	18.51	18.95
	6H	19.73	20.54	20.19	20.98	21.44	17.63	18.43	18.08	18.88	19.34
	8H	19.84	20.60	20.31	21.04	21.51	17.75	18.50	18.21	18.95	19.42
	12H	19.90	20.58	20.39	21.06	21.53	17.82	18.49	18.30	18.97	19.44
8H	4H	19.38	20.14	19.85	20.58	21.05	17.46	18.21	17.92	18.66	19.13
	6H	19.91	20.53	20.41	21.03	21.50	18.01	18.63	18.50	19.12	19.60
	8H	20.07	20.63	20.59	21.14	21.63	18.17	18.73	18.69	19.24	19.73
	12H	20.18	20.67	20.69	21.16	21.73	18.29	18.78	18.80	19.27	19.84
12H	4H	19.37	20.05	19.86	20.53	21.00	17.48	18.16	17.96	18.63	19.11
	6H	19.90	20.46	20.42	20.97	21.46	18.05	18.60	18.56	19.12	19.60
	8H	20.10	20.60	20.61	21.09	21.65	18.26	18.75	18.77	19.24	19.81