

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: P1217459

Luminaire Tested: S125DRP-H485D930-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217459
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-H485D930-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

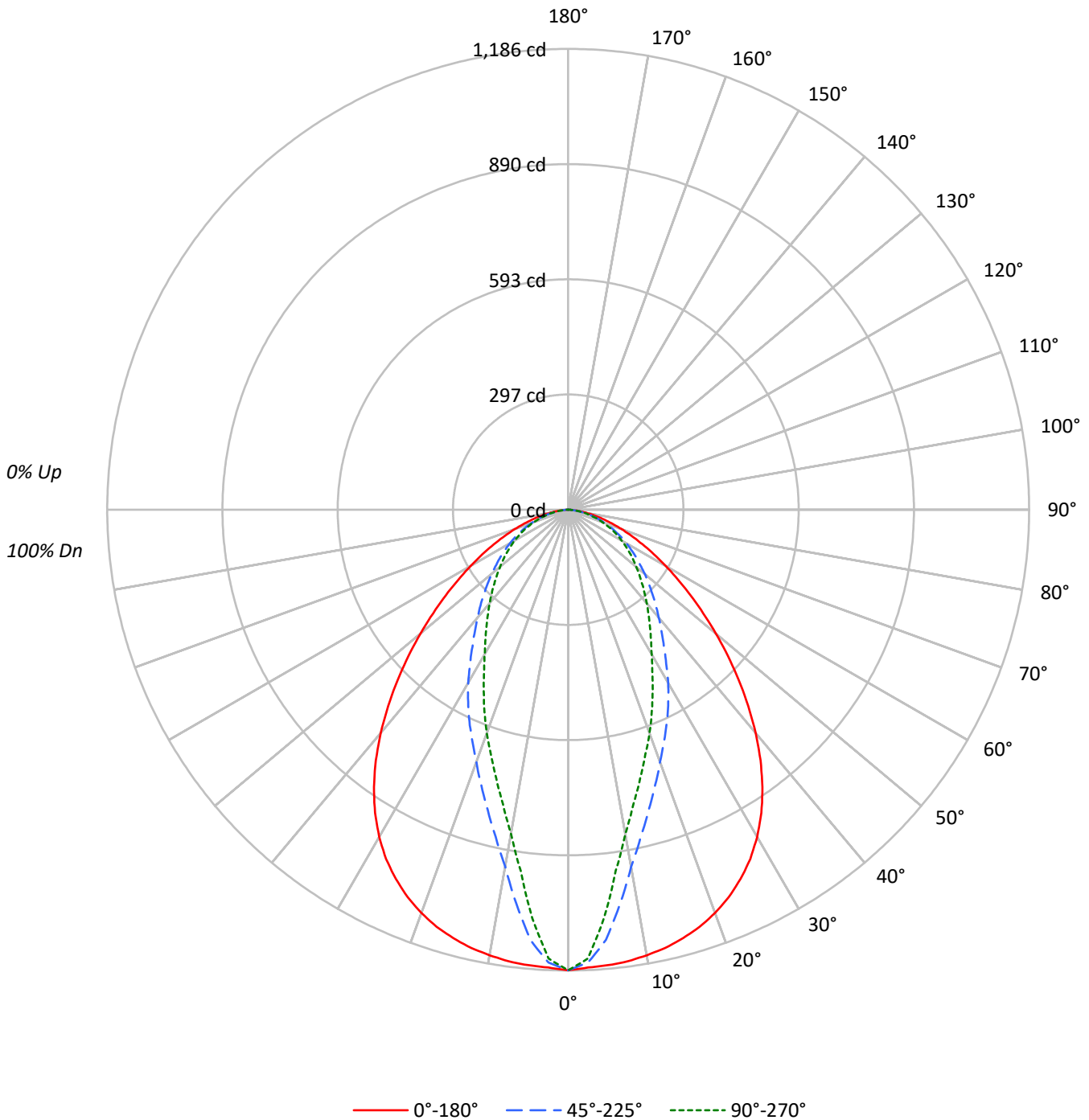
Lumens per Lamp: N/A
Luminaire Lumens: 1688.6 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 17.3
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	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°	8381	8381	8381
5°	8351	7889	7492
10°	8358	6698	6079
15°	8354	5856	5236
20°	8310	5198	4603
25°	8180	4691	4009
30°	7936	4196	3505
35°	7519	3706	3166
40°	6923	3342	2900
45°	6202	3055	2686
50°	5451	2824	2513
55°	4737	2623	2375
60°	4090	2440	2248
65°	3523	2270	2116
70°	3018	2075	1951
75°	2521	1808	1734
80°	1991	1482	1437
85°	1273	1014	1014

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6202 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	6.0
10°-20°	240.3	14.2
20°-30°	305.3	18.1
30°-40°	311.0	18.4
40°-50°	275.0	16.3
50°-60°	215.6	12.8
60°-70°	147.0	8.7
70°-80°	75.7	4.5
80°-90°	16.9	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°	647.4	38.3
0°-40°	958.3	56.8
0°-60°	1448.9	85.8
0°-90°	1688.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1688.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1186	1186	1186	1186	1186	
5°	1177	1171	1112	1068	1056	112
15°	1142	966	800	729	715	322
25°	1049	745	601	530	514	482
35°	871	563	429	375	367	542
45°	620	399	306	272	269	479
55°	384	266	213	193	193	346
65°	211	162	136	125	126	211
75°	92	78	66	62	64	99
85°	16	15	12	11	12	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1185.5	1185.5	1185.5	1185.5	1185.5
2.5°	1179.5	1188.8	1166.5	1160.5	1156.2
5°	1176.8	1170.9	1111.7	1068.3	1055.8
7.5°	1172.5	1139.4	1022.7	948.8	937.4
10°	1164.3	1090.0	933.1	860.9	846.8
12.5°	1155.1	1030.8	862.5	789.3	775.7
15°	1141.5	965.7	800.1	729.0	715.4
17.5°	1125.3	903.8	743.7	673.6	660.6
20°	1104.6	847.3	691.0	624.8	611.8
22.5°	1079.1	794.1	644.3	576.5	562.4
25°	1048.7	744.7	601.4	529.8	514.0
27.5°	1014.0	697.5	557.5	483.1	467.9
30°	972.2	651.4	514.0	441.9	429.4
32.5°	925.0	606.9	469.5	406.0	395.7
35°	871.2	563.4	429.4	375.1	366.9
37.5°	812.6	520.6	394.6	346.3	339.3
40°	750.2	478.8	362.1	319.7	314.3
42.5°	685.6	438.6	333.8	295.8	290.9
45°	620.4	399.0	305.6	272.5	268.7
47.5°	556.9	362.6	280.6	251.3	248.1
50°	495.6	328.4	256.8	230.7	228.5
52.5°	438.1	296.4	233.4	211.7	210.6
55°	384.3	266.5	212.8	193.2	192.7
57.5°	334.9	238.3	192.2	175.3	175.3
60°	289.3	211.7	172.6	158.0	159.0
62.5°	248.6	186.2	154.2	141.7	142.8
65°	210.6	162.3	135.7	125.4	126.5
67.5°	176.4	139.5	117.8	109.1	110.2
70°	146.0	117.8	100.4	92.8	94.4
72.5°	117.8	97.7	83.1	77.1	78.7
75°	92.3	77.6	66.2	61.9	63.5
77.5°	69.5	59.2	51.0	47.2	48.9
80°	48.9	42.3	36.4	33.7	35.3
82.5°	30.4	27.1	23.9	21.7	22.8
85°	15.7	14.7	12.5	11.4	12.5
87.5°	5.4	5.4	4.9	4.3	4.9
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	16.26	17.75	16.63	18.06	18.38	13.65	15.13	14.01	15.45	15.76
	3H	17.85	19.18	18.23	19.51	19.87	15.29	16.62	15.67	16.95	17.31
	4H	18.38	19.63	18.78	19.98	20.36	15.87	17.11	16.27	17.46	17.84
	6H	18.72	19.87	19.13	20.24	20.63	16.24	17.39	16.65	17.76	18.15
	8H	18.80	19.90	19.23	20.29	20.69	16.34	17.43	16.76	17.82	18.23
	12H	18.83	19.88	19.26	20.26	20.69	16.38	17.43	16.81	17.82	18.24
4H	2H	16.50	17.75	16.90	18.10	18.48	14.33	15.58	14.73	15.93	16.31
	3H	18.29	19.32	18.70	19.72	20.12	16.15	17.19	16.56	17.59	17.99
	4H	18.93	19.87	19.37	20.28	20.72	16.82	17.75	17.25	18.17	18.61
	6H	19.39	20.20	19.84	20.64	21.10	17.28	18.09	17.74	18.54	19.00
	8H	19.50	20.26	19.97	20.70	21.17	17.41	18.16	17.87	18.61	19.08
	12H	19.56	20.24	20.05	20.72	21.19	17.48	18.15	17.96	18.63	19.10
8H	4H	19.04	19.80	19.51	20.24	20.71	17.12	17.87	17.58	18.32	18.78
	6H	19.57	20.19	20.07	20.68	21.16	17.67	18.29	18.16	18.78	19.26
	8H	19.73	20.29	20.25	20.80	21.29	17.84	18.39	18.35	18.90	19.39
	12H	19.84	20.33	20.35	20.82	21.39	17.95	18.44	18.46	18.93	19.50
12H	4H	19.03	19.71	19.52	20.19	20.66	17.14	17.81	17.62	18.29	18.76
	6H	19.56	20.12	20.08	20.63	21.12	17.71	18.26	18.22	18.77	19.26
	8H	19.76	20.26	20.27	20.75	21.31	17.92	18.41	18.43	18.90	19.47