

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: P1217489

Luminaire Tested: S125DRP-S1005D950-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217489
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-S1005D950-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

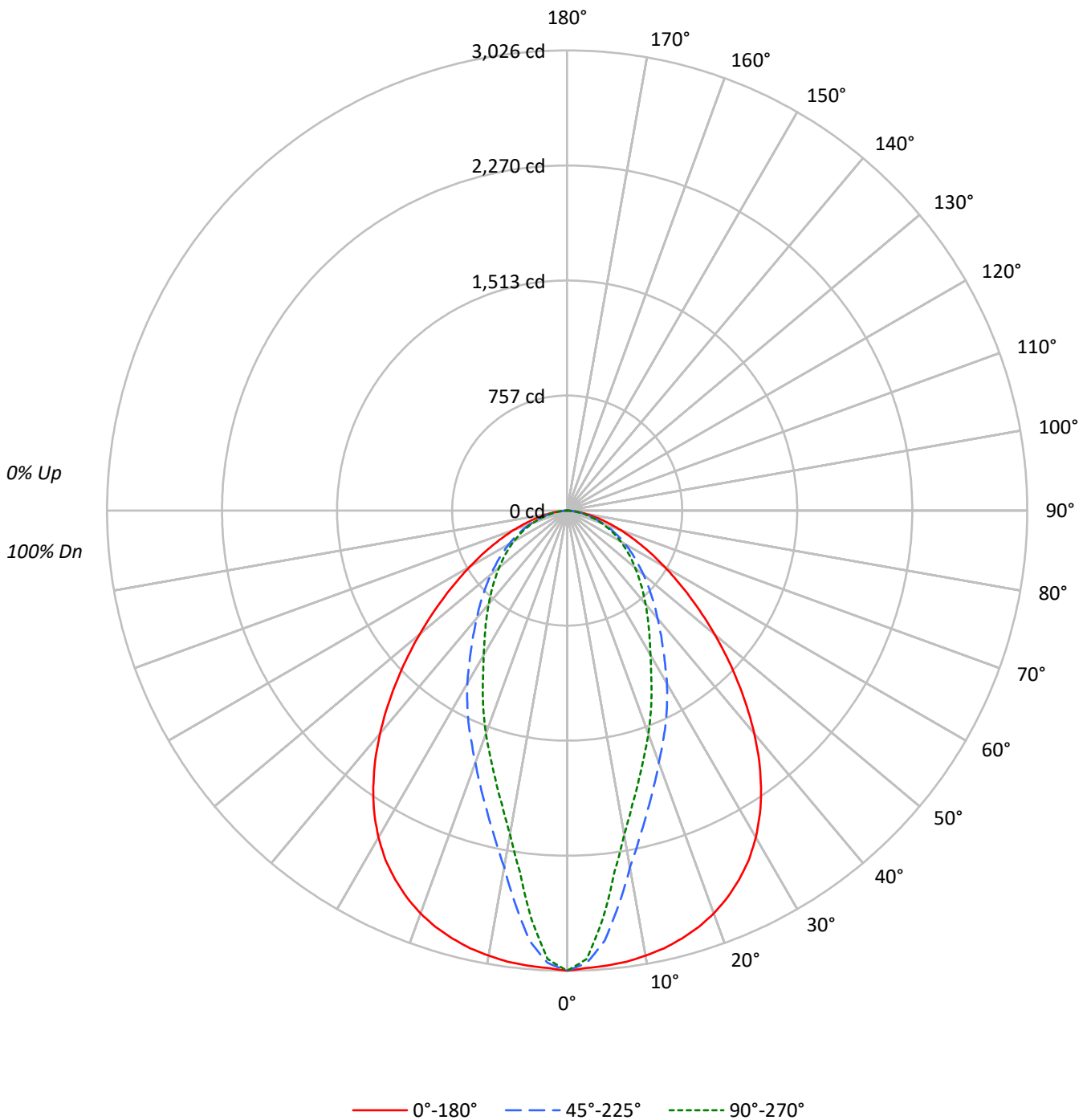
Lumens per Lamp: N/A
Luminaire Lumens: 4309.6 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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	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°	21390	21390	21390
5°	21314	20134	19122
10°	21331	17095	15514
15°	21323	14945	13363
20°	21209	13268	11746
25°	20878	11973	10234
30°	20254	10710	8945
35°	19189	9457	8082
40°	17669	8527	7402
45°	15831	7798	6856
50°	13911	7207	6414
55°	12088	6694	6061
60°	10440	6230	5739
65°	8991	5793	5400
70°	7703	5298	4983
75°	6432	4616	4428
80°	5077	3778	3664
85°	3261	2587	2587

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15831 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.7	6.0
10°-20°	613.3	14.2
20°-30°	779.2	18.1
30°-40°	793.6	18.4
40°-50°	702.0	16.3
50°-60°	550.1	12.8
60°-70°	375.2	8.7
70°-80°	193.2	4.5
80°-90°	43.2	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°	1652.2	38.3
0°-40°	2445.8	56.8
0°-60°	3697.9	85.8
0°-90°	4309.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4309.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3026	3026	3026	3026	3026	
5°	3004	2988	2837	2726	2695	286
15°	2914	2465	2042	1861	1826	822
25°	2677	1901	1535	1352	1312	1230
35°	2224	1438	1096	957	936	1384
45°	1584	1018	780	696	686	1221
55°	981	680	543	493	492	883
65°	538	414	346	320	323	538
75°	236	198	169	158	162	253
85°	40	37	32	29	32	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3025.7	3025.7	3025.7	3025.7	3025.7
2.5°	3010.4	3034.0	2977.2	2961.9	2950.9
5°	3003.5	2988.3	2837.3	2726.4	2694.6
7.5°	2992.4	2907.9	2610.1	2421.6	2392.5
10°	2971.6	2781.8	2381.5	2197.2	2161.2
12.5°	2948.1	2630.8	2201.4	2014.3	1979.7
15°	2913.5	2464.6	2042.0	1860.6	1825.9
17.5°	2871.9	2306.7	1898.0	1719.3	1686.0
20°	2819.2	2162.6	1763.6	1594.6	1561.3
22.5°	2754.1	2026.8	1644.4	1471.3	1435.3
25°	2676.6	1900.7	1535.0	1352.1	1312.0
27.5°	2587.9	1780.2	1422.8	1233.0	1194.2
30°	2481.2	1662.5	1312.0	1127.7	1095.8
32.5°	2360.7	1548.9	1198.4	1036.3	1009.9
35°	2223.5	1438.0	1095.8	957.3	936.5
37.5°	2073.9	1328.6	1007.2	883.9	865.9
40°	1914.6	1221.9	924.0	816.0	802.1
42.5°	1749.7	1119.4	852.0	755.0	742.6
45°	1583.5	1018.3	780.0	695.5	685.8
47.5°	1421.4	925.4	716.2	641.4	633.1
50°	1264.9	838.2	655.3	588.8	583.2
52.5°	1118.0	756.4	595.7	540.3	537.5
55°	980.8	680.2	543.1	493.2	491.8
57.5°	854.8	608.2	490.4	447.5	447.5
60°	738.4	540.3	440.6	403.1	405.9
62.5°	634.5	475.2	393.4	361.6	364.4
65°	537.5	414.2	346.3	320.0	322.8
67.5°	450.2	356.0	300.6	278.5	281.2
70°	372.7	300.6	256.3	236.9	241.1
72.5°	300.6	249.4	212.0	196.7	200.9
75°	235.5	198.1	169.0	157.9	162.1
77.5°	177.3	151.0	130.2	120.5	124.7
80°	124.7	108.1	92.8	85.9	90.0
82.5°	77.6	69.3	61.0	55.4	58.2
85°	40.2	37.4	31.9	29.1	31.9
87.5°	13.9	13.9	12.5	11.1	12.5
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	19.52	21.00	19.88	21.32	21.63	16.90	18.39	17.27	18.70	19.02
	3H	21.10	22.44	21.48	22.77	23.13	18.55	19.88	18.93	20.21	20.57
	4H	21.64	22.89	22.04	23.24	23.62	19.12	20.37	19.52	20.72	21.10
	6H	21.98	23.13	22.39	23.50	23.89	19.50	20.65	19.91	21.02	21.41
	8H	22.05	23.15	22.48	23.54	23.94	19.59	20.69	20.02	21.08	21.48
	12H	22.09	23.14	22.52	23.52	23.95	19.64	20.69	20.07	21.07	21.50
4H	2H	19.76	21.01	20.16	21.36	21.74	17.59	18.84	17.99	19.19	19.57
	3H	21.54	22.58	21.95	22.98	23.38	19.41	20.45	19.82	20.85	21.25
	4H	22.19	23.12	22.62	23.54	23.98	20.07	21.01	20.51	21.42	21.86
	6H	22.64	23.45	23.10	23.89	24.36	20.54	21.35	21.00	21.79	22.25
	8H	22.76	23.51	23.22	23.96	24.43	20.66	21.42	21.13	21.86	22.33
	12H	22.82	23.49	23.30	23.97	24.44	20.73	21.41	21.22	21.89	22.36
8H	4H	22.30	23.05	22.76	23.50	23.97	20.37	21.13	20.84	21.57	22.04
	6H	22.83	23.45	23.32	23.94	24.42	20.92	21.54	21.42	22.04	22.51
	8H	22.99	23.54	23.50	24.06	24.54	21.09	21.65	21.61	22.16	22.65
	12H	23.09	23.58	23.60	24.08	24.64	21.20	21.69	21.71	22.19	22.75
12H	4H	22.29	22.96	22.77	23.44	23.91	20.40	21.07	20.88	21.55	22.02
	6H	22.82	23.38	23.33	23.89	24.38	20.96	21.52	21.48	22.03	22.52
	8H	23.02	23.51	23.53	24.00	24.57	21.17	21.67	21.68	22.16	22.72