

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: P1217485

Luminaire Tested: S125DRP-S1005D927-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217485
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-S1005D927-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

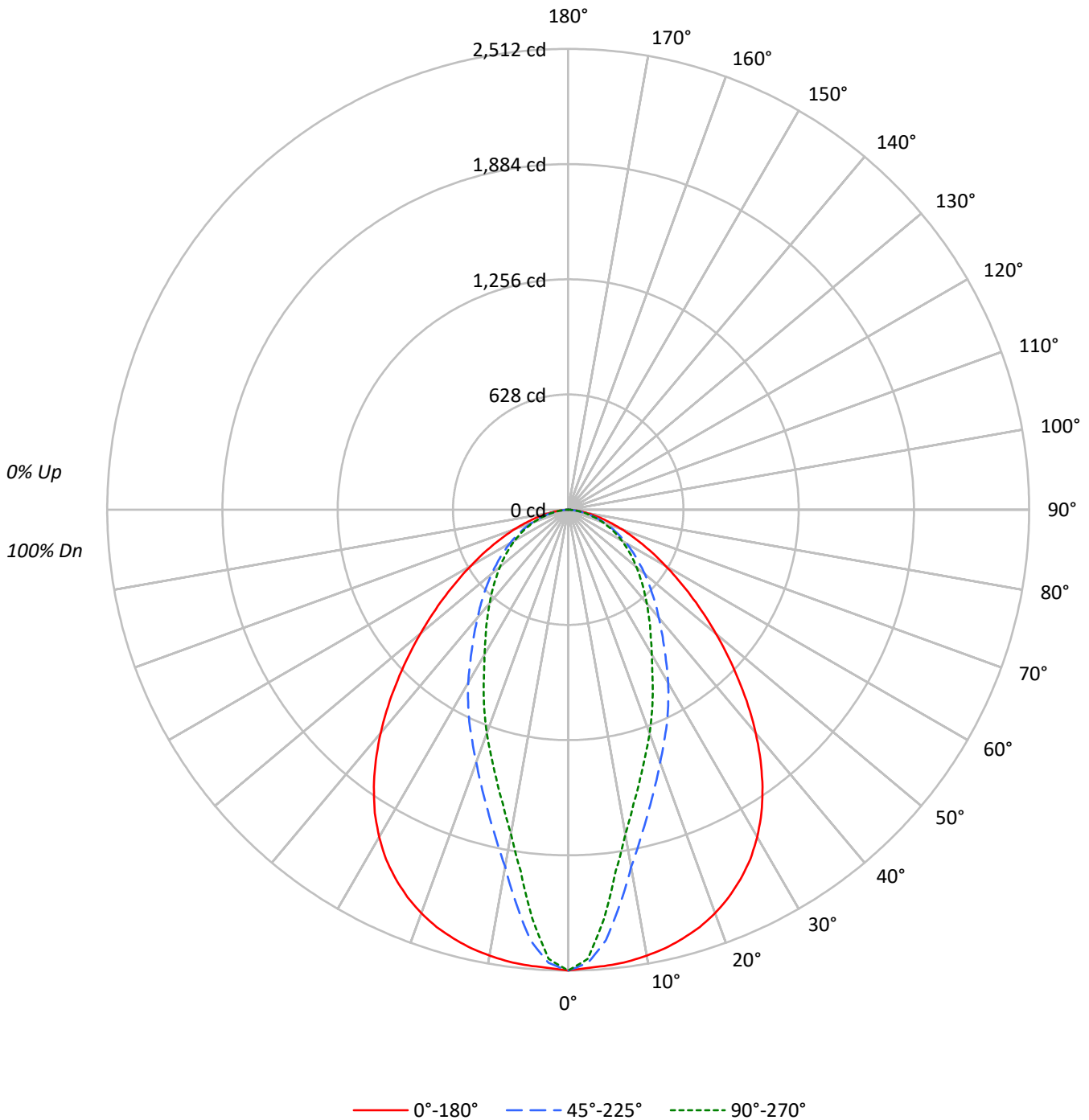
Lumens per Lamp: N/A
Luminaire Lumens: 3578.5 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	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												87																
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75												75																
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65												65																
4	87	76	68	62	85	75	67	62	72	66	61	70	64	60	68	63	59	57												57																
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51												51																
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46												46																
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41												41																
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37												37																
9	62	49	42	37	60	49	41	36	48	41	36	47	40	36	46	40	36	34												34																
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32												32																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17761	17761	17761
5°	17698	16719	15878
10°	17713	14195	12882
15°	17706	12410	11097
20°	17611	11017	9754
25°	17337	9942	8497
30°	16818	8893	7428
35°	15935	7853	6712
40°	14671	7081	6147
45°	13146	6475	5693
50°	11551	5984	5326
55°	10039	5559	5034
60°	8670	5172	4766
65°	7467	4811	4483
70°	6397	4398	4138
75°	5343	3832	3676
80°	4214	3139	3045
85°	2709	2149	2149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13146 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.6	6.0
10°-20°	509.3	14.2
20°-30°	647.0	18.1
30°-40°	659.0	18.4
40°-50°	582.9	16.3
50°-60°	456.8	12.8
60°-70°	311.6	8.7
70°-80°	160.4	4.5
80°-90°	35.9	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°	1371.9	38.3
0°-40°	2030.9	56.8
0°-60°	3070.7	85.8
0°-90°	3578.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3578.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2512	2512	2512	2512	2512	
5°	2494	2481	2356	2264	2238	237
15°	2419	2046	1696	1545	1516	682
25°	2223	1578	1275	1123	1089	1021
35°	1846	1194	910	795	778	1149
45°	1315	846	648	578	569	1014
55°	814	565	451	410	408	733
65°	446	344	288	266	268	447
75°	196	164	140	131	135	210
85°	33	31	26	24	26	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2512.4	2512.4	2512.4	2512.4	2512.4
2.5°	2499.8	2519.4	2472.2	2459.5	2450.3
5°	2494.0	2481.4	2356.0	2264.0	2237.5
7.5°	2484.8	2414.7	2167.3	2010.9	1986.7
10°	2467.6	2310.0	1977.5	1824.5	1794.6
12.5°	2448.0	2184.6	1828.0	1672.7	1643.9
15°	2419.3	2046.5	1695.7	1545.0	1516.2
17.5°	2384.8	1915.4	1576.0	1427.6	1400.0
20°	2341.0	1795.8	1464.4	1324.1	1296.5
22.5°	2287.0	1683.0	1365.5	1221.7	1191.8
25°	2222.6	1578.3	1274.6	1122.8	1089.4
27.5°	2148.9	1478.2	1181.4	1023.8	991.6
30°	2060.3	1380.5	1089.4	936.4	910.0
32.5°	1960.3	1286.1	995.1	860.5	838.6
35°	1846.4	1194.1	910.0	794.9	777.7
37.5°	1722.1	1103.2	836.3	733.9	719.0
40°	1589.8	1014.6	767.3	677.6	666.1
42.5°	1452.9	929.5	707.5	627.0	616.6
45°	1314.9	845.5	647.7	577.5	569.4
47.5°	1180.3	768.5	594.8	532.6	525.7
50°	1050.3	696.0	544.1	488.9	484.3
52.5°	928.4	628.1	494.7	448.7	446.4
55°	814.5	564.8	451.0	409.5	408.4
57.5°	709.8	505.0	407.2	371.6	371.6
60°	613.2	448.7	365.8	334.8	337.1
62.5°	526.9	394.6	326.7	300.3	302.6
65°	446.4	344.0	287.6	265.7	268.0
67.5°	373.9	295.6	249.6	231.2	233.5
70°	309.5	249.6	212.8	196.7	200.2
72.5°	249.6	207.1	176.0	163.4	166.8
75°	195.6	164.5	140.3	131.1	134.6
77.5°	147.2	125.4	108.1	100.1	103.5
80°	103.5	89.7	77.1	71.3	74.8
82.5°	64.4	57.5	50.6	46.0	48.3
85°	33.4	31.1	26.5	24.2	26.5
87.5°	11.5	11.5	10.4	9.2	10.4
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	18.87	20.36	19.24	20.67	20.99	16.26	17.74	16.62	18.06	18.37
	3H	20.46	21.79	20.84	22.12	22.48	17.90	19.23	18.28	19.56	19.92
	4H	20.99	22.24	21.39	22.59	22.97	18.48	19.73	18.88	20.07	20.45
	6H	21.33	22.48	21.74	22.85	23.24	18.85	20.00	19.26	20.37	20.76
	8H	21.41	22.51	21.84	22.90	23.30	18.95	20.04	19.37	20.43	20.84
	12H	21.44	22.49	21.87	22.87	23.30	18.99	20.04	19.42	20.42	20.85
4H	2H	19.11	20.36	19.51	20.71	21.09	16.95	18.19	17.35	18.54	18.92
	3H	20.90	21.93	21.31	22.33	22.73	18.76	19.80	19.17	20.20	20.60
	4H	21.54	22.48	21.98	22.89	23.33	19.43	20.36	19.86	20.78	21.22
	6H	22.00	22.81	22.45	23.25	23.71	19.89	20.70	20.35	21.15	21.61
	8H	22.11	22.87	22.57	23.31	23.78	20.02	20.77	20.48	21.22	21.69
	12H	22.17	22.85	22.65	23.32	23.80	20.09	20.76	20.57	21.24	21.71
8H	4H	21.65	22.41	22.12	22.85	23.32	19.73	20.48	20.19	20.93	21.39
	6H	22.18	22.80	22.68	23.29	23.77	20.28	20.90	20.77	21.39	21.87
	8H	22.34	22.90	22.86	23.41	23.90	20.44	21.00	20.96	21.51	22.00
	12H	22.45	22.94	22.96	23.43	24.00	20.56	21.05	21.07	21.54	22.11
12H	4H	21.64	22.32	22.12	22.79	23.27	19.75	20.42	20.23	20.90	21.37
	6H	22.17	22.73	22.69	23.24	23.73	20.31	20.87	20.83	21.38	21.87
	8H	22.37	22.87	22.88	23.36	23.92	20.53	21.02	21.04	21.51	22.08