

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: P1217441

Luminaire Tested: S125DRP-H1005D930-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217441
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-H1005D930-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

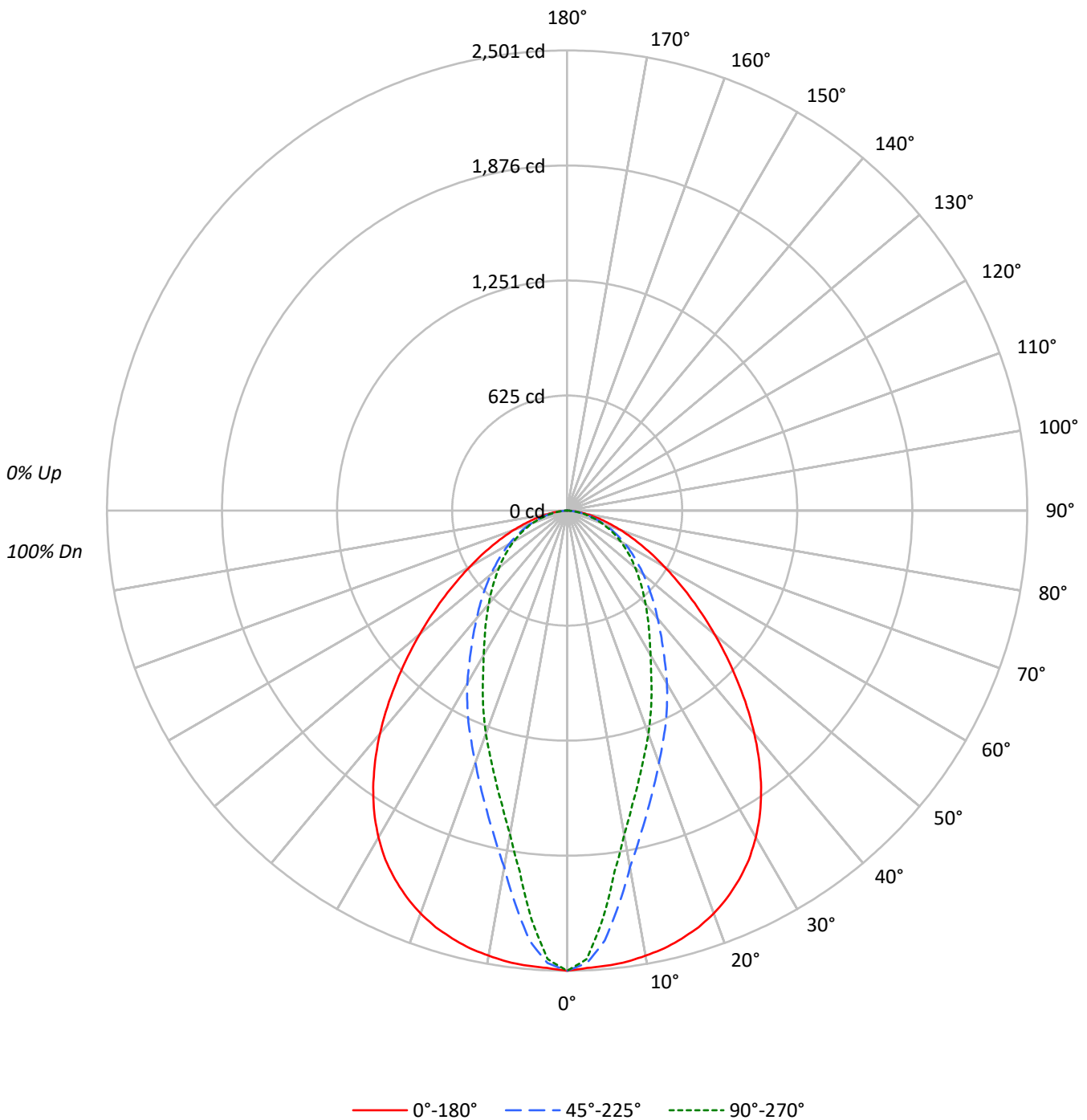
Lumens per Lamp: N/A
Luminaire Lumens: 3562.6 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 36.6
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: P1217441

CATALOG NUMBER: S125DRP-H1005D930-X4F0-XX-UDD-G-W

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°	17683	17683	17683
5°	17620	16644	15808
10°	17634	14132	12825
15°	17627	12355	11048
20°	17533	10968	9710
25°	17259	9898	8460
30°	16744	8854	7395
35°	15864	7818	6681
40°	14607	7050	6119
45°	13088	6446	5668
50°	11499	5958	5303
55°	9994	5533	5011
60°	8630	5149	4745
65°	7434	4789	4465
70°	6368	4380	4119
75°	5318	3816	3660
80°	4197	3123	3029
85°	2693	2133	2133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13088 cd/sqm



TEST NUMBER: P1217441

CATALOG NUMBER: S125DRP-H1005D930-X4F0-XX-UDD-G-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.7	6.0
10°-20°	507.0	14.2
20°-30°	644.1	18.1
30°-40°	656.1	18.4
40°-50°	580.3	16.3
50°-60°	454.8	12.8
60°-70°	310.2	8.7
70°-80°	159.7	4.5
80°-90°	35.7	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°	1365.8	38.3
0°-40°	2021.9	56.8
0°-60°	3057.0	85.8
0°-90°	3562.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3562.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2501	2501	2501	2501	2501	
5°	2483	2470	2346	2254	2228	236
15°	2408	2038	1688	1538	1510	679
25°	2213	1571	1269	1118	1085	1017
35°	1838	1189	906	791	774	1144
45°	1309	842	645	575	567	1010
55°	811	562	449	408	407	730
65°	444	342	286	265	267	445
75°	195	164	140	131	134	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°	2501.3	2501.3	2501.3	2501.3	2501.3
2.5°	2488.7	2508.2	2461.2	2448.6	2439.4
5°	2483.0	2470.4	2345.5	2253.9	2227.6
7.5°	2473.8	2403.9	2157.7	2001.9	1977.9
10°	2456.6	2299.7	1968.7	1816.4	1786.6
12.5°	2437.2	2174.9	1819.8	1665.2	1636.6
15°	2408.5	2037.5	1688.1	1538.1	1509.5
17.5°	2374.2	1906.9	1569.0	1421.3	1393.8
20°	2330.6	1787.8	1457.9	1318.2	1290.7
22.5°	2276.8	1675.5	1359.4	1216.3	1186.5
25°	2212.7	1571.3	1269.0	1117.8	1084.6
27.5°	2139.4	1471.7	1176.2	1019.3	987.2
30°	2051.2	1374.3	1084.6	932.3	905.9
32.5°	1951.6	1280.4	990.7	856.7	834.9
35°	1838.2	1188.8	905.9	791.4	774.2
37.5°	1714.5	1098.3	832.6	730.7	715.8
40°	1582.8	1010.1	763.9	674.6	663.1
42.5°	1446.5	925.4	704.3	624.2	613.9
45°	1309.1	841.8	644.8	574.9	566.9
47.5°	1175.1	765.0	592.1	530.3	523.4
50°	1045.6	692.9	541.7	486.7	482.2
52.5°	924.2	625.3	492.5	446.7	444.4
55°	810.9	562.3	448.9	407.7	406.6
57.5°	706.6	502.8	405.4	369.9	369.9
60°	610.4	446.7	364.2	333.3	335.6
62.5°	524.5	392.8	325.3	298.9	301.2
65°	444.4	342.4	286.3	264.6	266.9
67.5°	372.2	294.3	248.5	230.2	232.5
70°	308.1	248.5	211.9	195.8	199.3
72.5°	248.5	206.2	175.2	162.6	166.1
75°	194.7	163.8	139.7	130.6	134.0
77.5°	146.6	124.8	107.7	99.6	103.1
80°	103.1	89.3	76.7	71.0	74.4
82.5°	64.1	57.3	50.4	45.8	48.1
85°	33.2	30.9	26.3	24.1	26.3
87.5°	11.5	11.5	10.3	9.2	10.3
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	18.86	20.34	19.22	20.66	20.97	16.24	17.73	16.61	18.04	18.36
	3H	20.44	21.78	20.82	22.10	22.47	17.89	19.22	18.26	19.55	19.91
	4H	20.98	22.23	21.38	22.58	22.95	18.46	19.71	18.86	20.06	20.44
	6H	21.31	22.47	21.73	22.83	23.23	18.84	19.99	19.25	20.36	20.75
	8H	21.39	22.49	21.82	22.88	23.28	18.93	20.03	19.36	20.42	20.82
	12H	21.42	22.47	21.86	22.86	23.29	18.98	20.03	19.41	20.41	20.84
4H	2H	19.10	20.35	19.50	20.70	21.08	16.93	18.18	17.33	18.53	18.91
	3H	20.88	21.92	21.29	22.32	22.72	18.75	19.78	19.16	20.18	20.59
	4H	21.53	22.46	21.96	22.88	23.32	19.41	20.34	19.85	20.76	21.20
	6H	21.98	22.79	22.44	23.23	23.69	19.88	20.69	20.34	21.13	21.59
	8H	22.10	22.85	22.56	23.30	23.76	20.00	20.76	20.47	21.20	21.67
	12H	22.16	22.83	22.64	23.31	23.78	20.07	20.75	20.55	21.22	21.70
8H	4H	21.64	22.39	22.10	22.84	23.30	19.71	20.47	20.17	20.91	21.38
	6H	22.16	22.79	22.66	23.28	23.76	20.26	20.88	20.76	21.37	21.85
	8H	22.33	22.88	22.84	23.39	23.88	20.43	20.99	20.94	21.50	21.99
	12H	22.43	22.92	22.94	23.42	23.98	20.54	21.03	21.05	21.53	22.09
12H	4H	21.63	22.30	22.11	22.78	23.25	19.73	20.41	20.22	20.89	21.36
	6H	22.16	22.72	22.67	23.23	23.72	20.30	20.86	20.81	21.37	21.86
	8H	22.36	22.85	22.87	23.34	23.91	20.51	21.00	21.02	21.50	22.06