

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: P1217516

Luminaire Tested: S125DRP-S675D950-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217516
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-S675D950-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

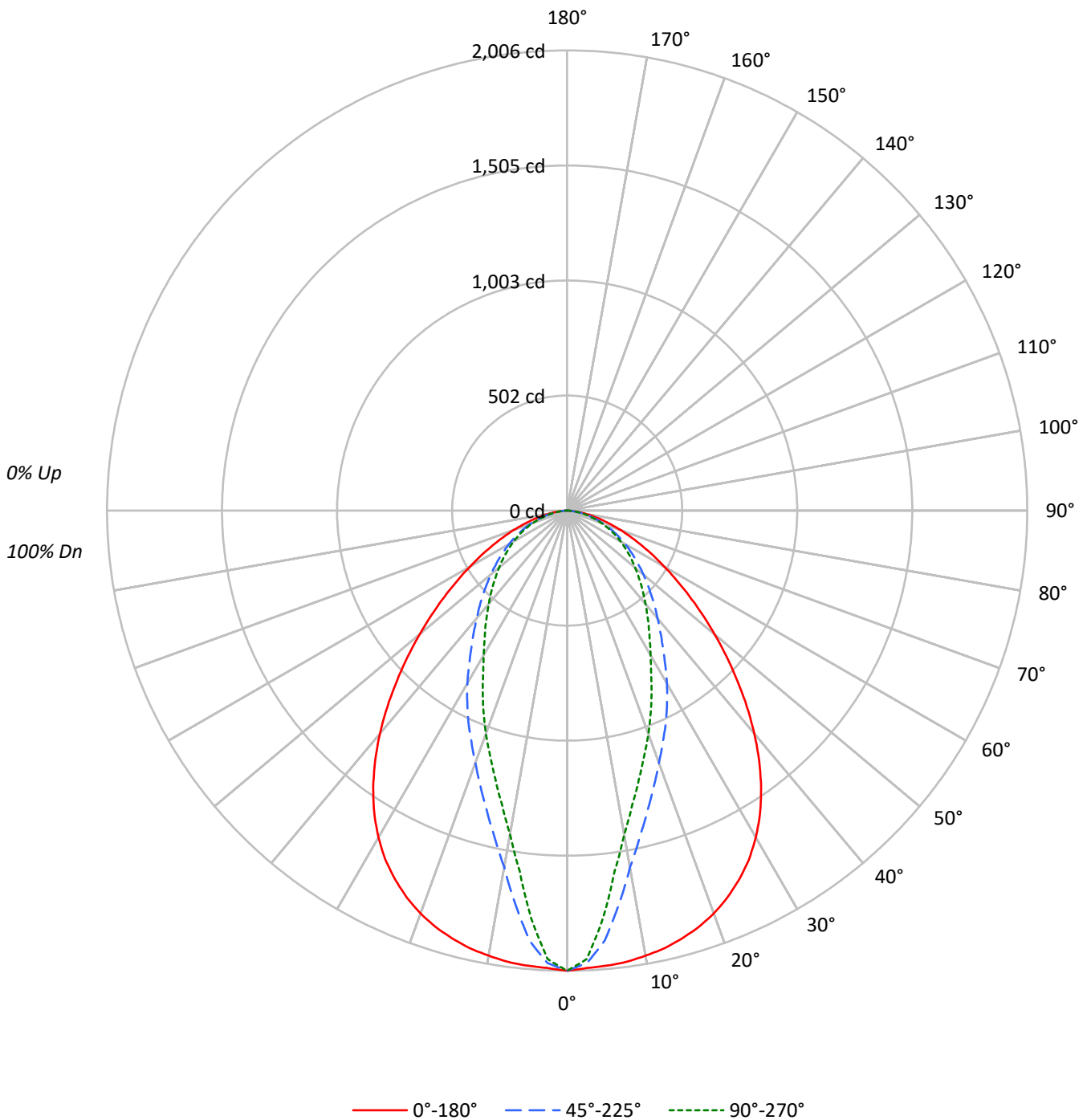
Lumens per Lamp: N/A
Luminaire Lumens: 2857.5 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
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

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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°	14183	14183	14183
5°	14132	13350	12679
10°	14144	11335	10287
15°	14138	9910	8861
20°	14063	8797	7789
25°	13843	7939	6785
30°	13430	7101	5931
35°	12723	6271	5359
40°	11715	5654	4909
45°	10497	5171	4546
50°	9224	4779	4253
55°	8016	4438	4019
60°	6922	4130	3805
65°	5962	3841	3580
70°	5107	3512	3303
75°	4266	3062	2936
80°	3367	2504	2430
85°	2158	1711	1711

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10497 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	6.0
10°-20°	406.7	14.2
20°-30°	516.6	18.1
30°-40°	526.2	18.4
40°-50°	465.4	16.3
50°-60°	364.8	12.8
60°-70°	248.8	8.7
70°-80°	128.1	4.5
80°-90°	28.6	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°	1095.5	38.3
0°-40°	1621.7	56.8
0°-60°	2451.9	85.8
0°-90°	2857.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2857.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2006	2006	2006	2006	2006	
5°	1992	1981	1881	1808	1787	189
15°	1932	1634	1354	1234	1211	545
25°	1775	1260	1018	896	870	816
35°	1474	954	727	635	621	918
45°	1050	675	517	461	455	810
55°	650	451	360	327	326	585
65°	356	275	230	212	214	357
75°	156	131	112	105	108	168
85°	27	25	21	19	21	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2006.2	2006.2	2006.2	2006.2	2006.2
2.5°	1996.1	2011.7	1974.1	1964.0	1956.6
5°	1991.5	1981.4	1881.3	1807.8	1786.7
7.5°	1984.2	1928.1	1730.6	1605.7	1586.4
10°	1970.4	1844.5	1579.1	1456.9	1433.0
12.5°	1954.8	1744.4	1459.6	1335.6	1312.7
15°	1931.8	1634.2	1354.0	1233.7	1210.7
17.5°	1904.2	1529.5	1258.5	1140.0	1117.9
20°	1869.3	1433.9	1169.4	1057.3	1035.3
22.5°	1826.2	1343.9	1090.4	975.5	951.7
25°	1774.7	1260.3	1017.8	896.5	869.9
27.5°	1715.9	1180.4	943.4	817.5	791.8
30°	1645.2	1102.3	869.9	747.7	726.6
32.5°	1565.3	1027.0	794.6	687.1	669.7
35°	1474.3	953.5	726.6	634.7	621.0
37.5°	1375.1	880.9	667.8	586.1	574.1
40°	1269.5	810.2	612.7	541.1	531.9
42.5°	1160.2	742.2	564.9	500.6	492.4
45°	1050.0	675.2	517.2	461.1	454.7
47.5°	942.5	613.6	474.9	425.3	419.8
50°	838.7	555.7	434.5	390.4	386.7
52.5°	741.3	501.6	395.0	358.3	356.4
55°	650.4	451.0	360.1	327.0	326.1
57.5°	566.8	403.3	325.2	296.7	296.7
60°	489.6	358.3	292.1	267.3	269.1
62.5°	420.7	315.1	260.9	239.8	241.6
65°	356.4	274.7	229.6	212.2	214.0
67.5°	298.5	236.1	199.3	184.6	186.5
70°	247.1	199.3	169.9	157.1	159.8
72.5°	199.3	165.3	140.5	130.4	133.2
75°	156.2	131.4	112.1	104.7	107.5
77.5°	117.6	100.1	86.3	79.9	82.7
80°	82.7	71.7	61.5	57.0	59.7
82.5°	51.4	45.9	40.4	36.7	38.6
85°	26.6	24.8	21.1	19.3	21.1
87.5°	9.2	9.2	8.3	7.3	8.3
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	18.09	19.58	18.46	19.89	20.20	15.48	16.96	15.84	17.28	17.59
	3H	19.68	21.01	20.06	21.34	21.70	17.12	18.45	17.50	18.78	19.14
	4H	20.21	21.46	20.61	21.81	22.19	17.69	18.94	18.09	19.29	19.67
	6H	20.55	21.70	20.96	22.07	22.46	18.07	19.22	18.48	19.59	19.98
	8H	20.63	21.72	21.05	22.11	22.52	18.17	19.26	18.59	19.65	20.05
	12H	20.66	21.71	21.09	22.09	22.52	18.21	19.26	18.64	19.64	20.07
4H	2H	18.33	19.58	18.73	19.93	20.31	16.16	17.41	16.56	17.76	18.14
	3H	20.11	21.15	20.53	21.55	21.95	17.98	19.02	18.39	19.42	19.82
	4H	20.76	21.69	21.19	22.11	22.55	18.65	19.58	19.08	19.99	20.43
	6H	21.21	22.02	21.67	22.47	22.93	19.11	19.92	19.57	20.36	20.83
	8H	21.33	22.09	21.79	22.53	23.00	19.24	19.99	19.70	20.44	20.90
	12H	21.39	22.06	21.87	22.54	23.01	19.31	19.98	19.79	20.46	20.93
8H	4H	20.87	21.63	21.33	22.07	22.54	18.94	19.70	19.41	20.14	20.61
	6H	21.40	22.02	21.90	22.51	22.99	19.49	20.12	19.99	20.61	21.09
	8H	21.56	22.12	22.07	22.63	23.12	19.66	20.22	20.18	20.73	21.22
	12H	21.66	22.16	22.18	22.65	23.22	19.77	20.27	20.29	20.76	21.33
12H	4H	20.86	21.53	21.34	22.01	22.48	18.97	19.64	19.45	20.12	20.59
	6H	21.39	21.95	21.91	22.46	22.95	19.53	20.09	20.05	20.60	21.09
	8H	21.59	22.08	22.10	22.58	23.14	19.75	20.24	20.26	20.73	21.30