

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: P1217511

Luminaire Tested: S125DRP-S675D850-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217511  
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-S675D850-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

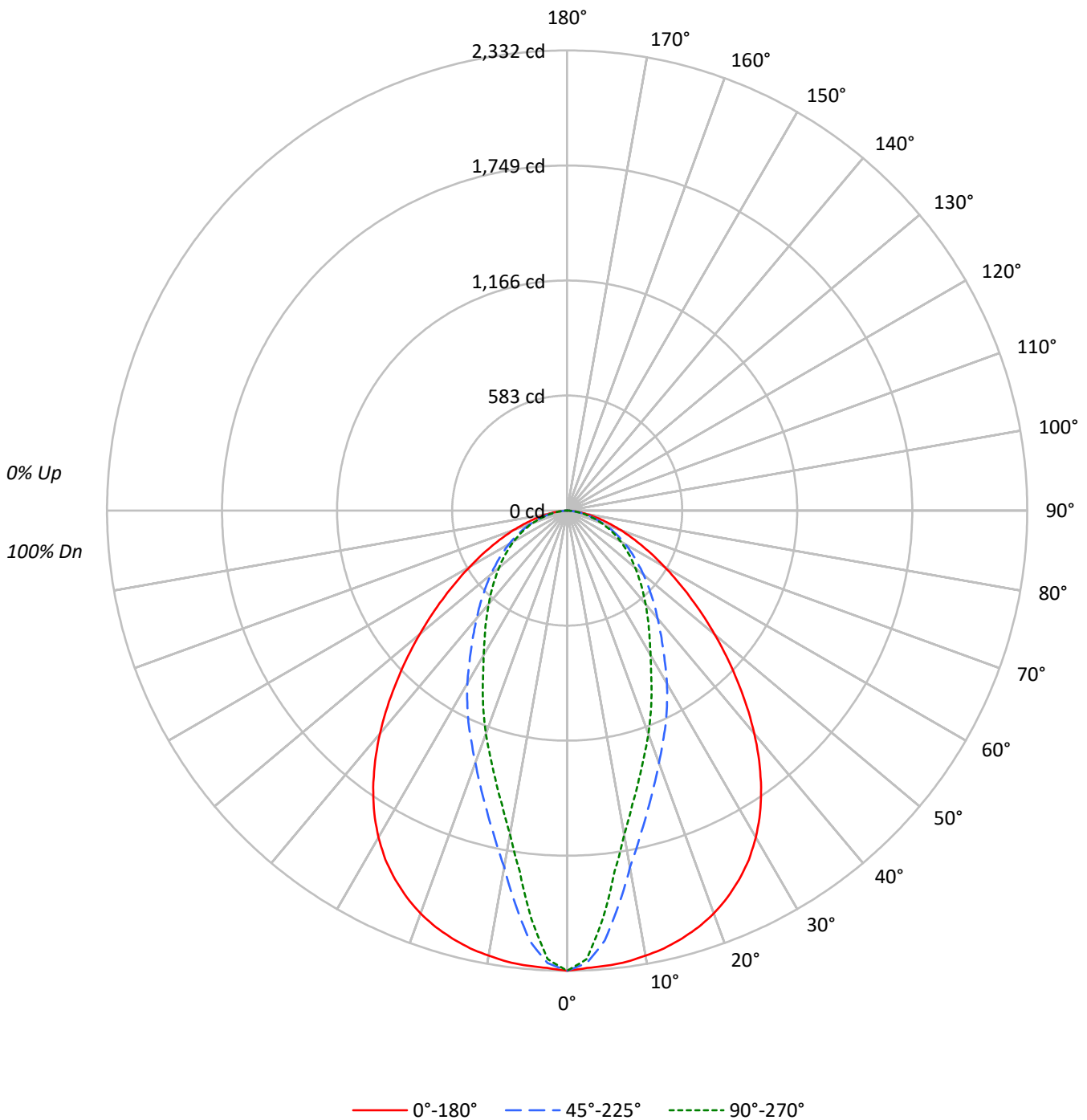
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3321.8 lumens  
Efficiency: N/A  
Efficacy: 125.8 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 (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	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°	16487	16487	16487
5°	16429	15519	14738
10°	16442	13177	11958
15°	16436	11520	10300
20°	16348	10227	9054
25°	16092	9229	7888
30°	15612	8254	6895
35°	14791	7290	6230
40°	13619	6572	5706
45°	12202	6011	5285
50°	10722	5555	4945
55°	9318	5159	4672
60°	8048	4801	4424
65°	6930	4466	4162
70°	5936	4084	3840
75°	4957	3559	3411
80°	3912	2911	2825
85°	2514	1995	1995

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12202 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.2	6.0
10°-20°	472.7	14.2
20°-30°	600.6	18.1
30°-40°	611.7	18.4
40°-50°	541.1	16.3
50°-60°	424.1	12.8
60°-70°	289.2	8.7
70°-80°	148.9	4.5
80°-90°	33.3	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°	1273.5	38.3
0°-40°	1885.2	56.8
0°-60°	2850.3	85.8
0°-90°	3321.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3321.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2332	2332	2332	2332	2332	
5°	2315	2303	2187	2102	2077	220
15°	2246	1900	1574	1434	1407	634
25°	2063	1465	1183	1042	1011	948
35°	1714	1108	845	738	722	1067
45°	1220	785	601	536	529	941
55°	756	524	419	380	379	680
65°	414	319	267	247	249	415
75°	182	153	130	122	125	195
85°	31	29	25	22	25	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2332.2	2332.2	2332.2	2332.2	2332.2
2.5°	2320.4	2338.6	2294.8	2283.0	2274.5
5°	2315.1	2303.3	2186.9	2101.5	2076.9
7.5°	2306.5	2241.4	2011.8	1866.6	1844.2
10°	2290.5	2144.2	1835.6	1693.6	1665.8
12.5°	2272.4	2027.8	1696.8	1552.6	1525.9
15°	2245.7	1899.7	1574.0	1434.1	1407.4
17.5°	2213.6	1778.0	1462.9	1325.2	1299.6
20°	2173.1	1666.9	1359.4	1229.1	1203.5
22.5°	2122.9	1562.3	1267.5	1134.0	1106.3
25°	2063.1	1465.1	1183.2	1042.2	1011.2
27.5°	1994.7	1372.2	1096.7	950.4	920.5
30°	1912.5	1281.4	1011.2	869.2	844.7
32.5°	1819.6	1193.8	923.7	798.7	778.5
35°	1713.9	1108.4	844.7	737.9	721.9
37.5°	1598.6	1024.1	776.3	681.3	667.4
40°	1475.8	941.8	712.2	629.0	618.3
42.5°	1348.7	862.8	656.7	582.0	572.4
45°	1220.5	784.9	601.2	536.1	528.6
47.5°	1095.6	713.3	552.1	494.4	488.0
50°	974.9	646.0	505.1	453.8	449.6
52.5°	861.7	583.0	459.2	416.5	414.3
55°	756.0	524.3	418.6	380.2	379.1
57.5°	658.9	468.8	378.0	344.9	344.9
60°	569.2	416.5	339.6	310.7	312.9
62.5°	489.1	366.3	303.3	278.7	280.8
65°	414.3	319.3	267.0	246.7	248.8
67.5°	347.0	274.4	231.7	214.6	216.8
70°	287.2	231.7	197.6	182.6	185.8
72.5°	231.7	192.2	163.4	151.6	154.8
75°	181.5	152.7	130.3	121.7	124.9
77.5°	136.7	116.4	100.4	92.9	96.1
80°	96.1	83.3	71.5	66.2	69.4
82.5°	59.8	53.4	47.0	42.7	44.8
85°	31.0	28.8	24.6	22.4	24.6
87.5°	10.7	10.7	9.6	8.5	9.6
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	18.61	20.10	18.98	20.41	20.73	16.00	17.49	16.36	17.80	18.11
	3H	20.20	21.53	20.58	21.86	22.22	17.64	18.97	18.02	19.30	19.67
	4H	20.73	21.98	21.13	22.33	22.71	18.22	19.47	18.62	19.82	20.19
	6H	21.07	22.22	21.48	22.59	22.98	18.59	19.74	19.00	20.11	20.50
	8H	21.15	22.25	21.58	22.64	23.04	18.69	19.78	19.11	20.17	20.58
	12H	21.18	22.23	21.61	22.61	23.04	18.73	19.78	19.16	20.17	20.59
4H	2H	18.86	20.10	19.26	20.45	20.83	16.69	17.93	17.09	18.28	18.66
	3H	20.64	21.67	21.05	22.07	22.48	18.50	19.54	18.92	19.94	20.34
	4H	21.28	22.22	21.72	22.63	23.07	19.17	20.10	19.60	20.52	20.96
	6H	21.74	22.55	22.20	22.99	23.45	19.64	20.44	20.09	20.89	21.35
	8H	21.85	22.61	22.32	23.05	23.52	19.76	20.51	20.22	20.96	21.43
	12H	21.91	22.59	22.40	23.07	23.54	19.83	20.50	20.31	20.98	21.45
8H	4H	21.39	22.15	21.86	22.59	23.06	19.47	20.22	19.93	20.67	21.14
	6H	21.92	22.54	22.42	23.04	23.51	20.02	20.64	20.51	21.13	21.61
	8H	22.08	22.64	22.60	23.15	23.64	20.19	20.74	20.70	21.25	21.74
	12H	22.19	22.68	22.70	23.17	23.74	20.30	20.79	20.81	21.28	21.85
12H	4H	21.38	22.06	21.87	22.54	23.01	19.49	20.17	19.97	20.64	21.12
	6H	21.91	22.47	22.43	22.98	23.47	20.06	20.61	20.57	21.13	21.61
	8H	22.11	22.61	22.63	23.10	23.67	20.27	20.76	20.78	21.25	21.82