

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: P1217466

Luminaire Tested: S125DRP-H675D850-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217466  
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-H675D850-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

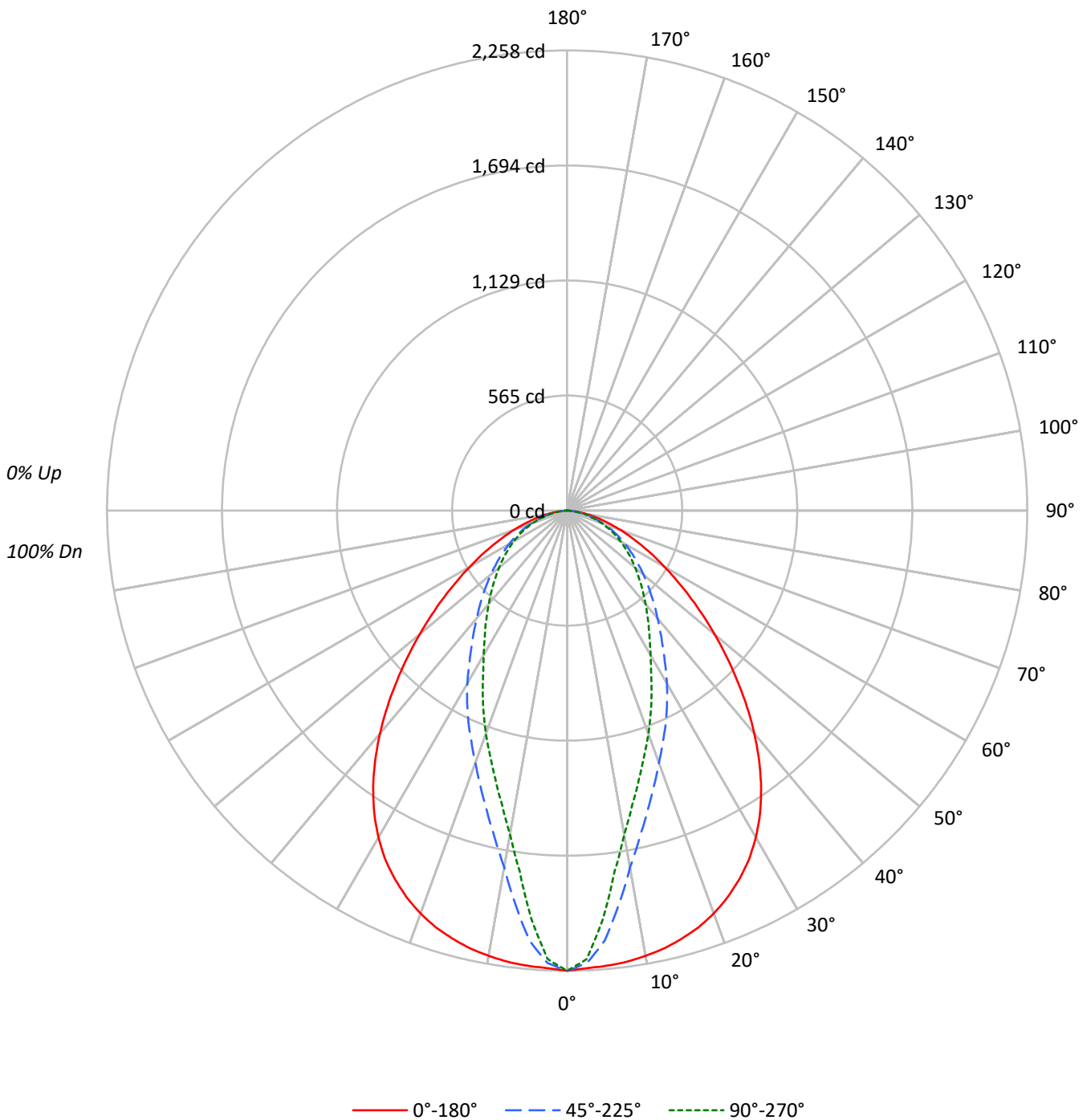
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3216.7 lumens  
Efficiency: N/A  
Efficacy: 135.2 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): 23.8  
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°	15965	15965	15965
5°	15909	15029	14273
10°	15922	12760	11579
15°	15915	11155	9975
20°	15831	9903	8767
25°	15583	8937	7639
30°	15118	7994	6676
35°	14323	7059	6032
40°	13188	6365	5525
45°	11816	5821	5118
50°	10383	5379	4787
55°	9023	4997	4525
60°	7793	4649	4284
65°	6711	4324	4030
70°	5750	3954	3718
75°	4802	3447	3305
80°	3790	2821	2736
85°	2433	1930	1930

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11816 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.8	6.0
10°-20°	457.8	14.2
20°-30°	581.6	18.1
30°-40°	592.4	18.4
40°-50°	524.0	16.3
50°-60°	410.6	12.8
60°-70°	280.1	8.7
70°-80°	144.2	4.5
80°-90°	32.2	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°	1233.2	38.3
0°-40°	1825.6	56.8
0°-60°	2760.2	85.8
0°-90°	3216.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3216.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2258	2258	2258	2258	2258	
5°	2242	2230	2118	2035	2011	213
15°	2175	1840	1524	1389	1363	613
25°	1998	1419	1146	1009	979	918
35°	1660	1073	818	714	699	1033
45°	1182	760	582	519	512	912
55°	732	508	405	368	367	659
65°	401	309	258	239	241	402
75°	176	148	126	118	121	189
85°	30	28	24	22	24	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2258.4	2258.4	2258.4	2258.4	2258.4
2.5°	2247.0	2264.6	2222.2	2210.8	2202.6
5°	2241.9	2230.5	2117.8	2035.0	2011.3
7.5°	2233.6	2170.5	1948.2	1807.5	1785.8
10°	2218.1	2076.4	1777.6	1640.0	1613.1
12.5°	2200.5	1963.7	1643.1	1503.5	1477.7
15°	2174.6	1839.6	1524.2	1388.7	1362.9
17.5°	2143.6	1721.7	1416.7	1283.3	1258.5
20°	2104.3	1614.2	1316.4	1190.2	1165.4
22.5°	2055.7	1512.8	1227.4	1098.2	1071.3
25°	1997.8	1418.7	1145.7	1009.2	979.3
27.5°	1931.6	1328.8	1062.0	920.3	891.4
30°	1852.0	1240.9	979.3	841.7	817.9
32.5°	1762.0	1156.1	894.5	773.5	753.8
35°	1659.7	1073.4	817.9	714.5	699.0
37.5°	1548.0	991.7	751.8	659.7	646.3
40°	1429.1	912.0	689.7	609.1	598.7
42.5°	1306.0	835.5	635.9	563.6	554.3
45°	1181.9	760.0	582.2	519.1	511.9
47.5°	1061.0	690.8	534.6	478.8	472.6
50°	944.1	625.6	489.1	439.5	435.3
52.5°	834.5	564.6	444.6	403.3	401.2
55°	732.1	507.7	405.4	368.1	367.1
57.5°	638.0	454.0	366.1	334.0	334.0
60°	551.2	403.3	328.8	300.9	303.0
62.5°	473.6	354.7	293.7	269.9	272.0
65°	401.2	309.2	258.5	238.9	240.9
67.5°	336.1	265.8	224.4	207.8	209.9
70°	278.2	224.4	191.3	176.8	179.9
72.5°	224.4	186.1	158.2	146.8	149.9
75°	175.8	147.9	126.2	117.9	121.0
77.5°	132.4	112.7	97.2	90.0	93.1
80°	93.1	80.7	69.3	64.1	67.2
82.5°	57.9	51.7	45.5	41.4	43.4
85°	30.0	27.9	23.8	21.7	23.8
87.5°	10.3	10.3	9.3	8.3	9.3
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	18.50	19.99	18.87	20.30	20.62	15.89	17.37	16.25	17.69	18.00
	3H	20.09	21.42	20.47	21.75	22.11	17.53	18.86	17.91	19.19	19.55
	4H	20.62	21.87	21.02	22.22	22.60	18.11	19.35	18.51	19.70	20.08
	6H	20.96	22.11	21.37	22.48	22.87	18.48	19.63	18.89	20.00	20.39
	8H	21.04	22.14	21.47	22.53	22.93	18.58	19.67	19.00	20.06	20.47
	12H	21.07	22.12	21.50	22.50	22.93	18.62	19.67	19.05	20.05	20.48
4H	2H	18.74	19.99	19.14	20.34	20.72	16.57	17.82	16.97	18.17	18.55
	3H	20.53	21.56	20.94	21.96	22.36	18.39	19.43	18.80	19.83	20.23
	4H	21.17	22.11	21.61	22.52	22.96	19.06	19.99	19.49	20.41	20.84
	6H	21.63	22.44	22.08	22.88	23.34	19.52	20.33	19.98	20.78	21.24
	8H	21.74	22.50	22.21	22.94	23.41	19.65	20.40	20.11	20.85	21.32
	12H	21.80	22.48	22.28	22.96	23.43	19.72	20.39	20.20	20.87	21.34
8H	4H	21.28	22.04	21.75	22.48	22.95	19.35	20.11	19.82	20.56	21.02
	6H	21.81	22.43	22.31	22.92	23.40	19.91	20.53	20.40	21.02	21.50
	8H	21.97	22.53	22.49	23.04	23.53	20.07	20.63	20.59	21.14	21.63
	12H	22.08	22.57	22.59	23.06	23.63	20.19	20.68	20.70	21.17	21.74
12H	4H	21.27	21.95	21.75	22.43	22.90	19.38	20.05	19.86	20.53	21.00
	6H	21.80	22.36	22.32	22.87	23.36	19.94	20.50	20.46	21.01	21.50
	8H	22.00	22.50	22.51	22.99	23.55	20.16	20.65	20.67	21.14	21.71