

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: P1217468

Luminaire Tested: S125DRP-H675D930-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217468  
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-H675D930-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: -

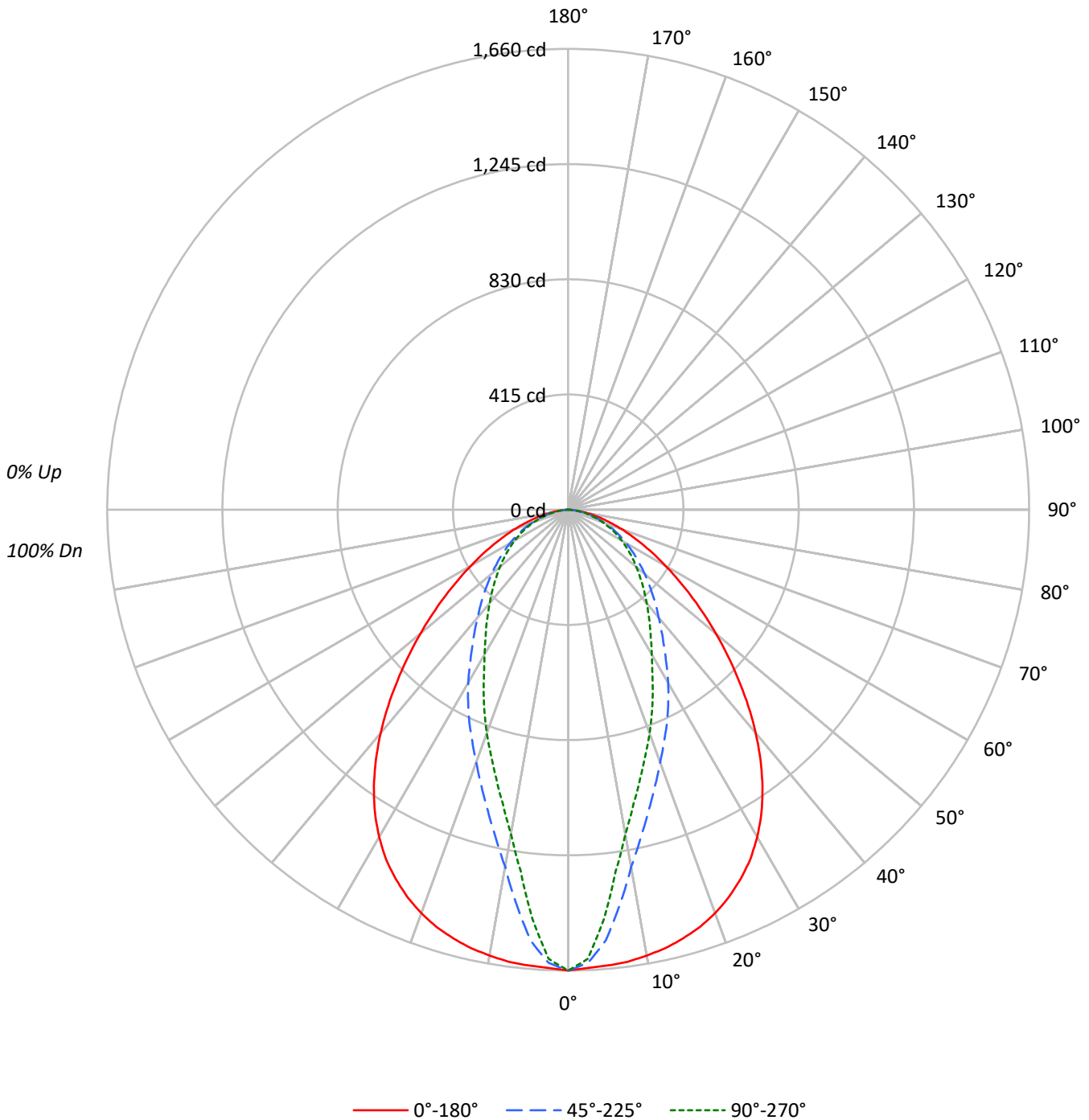
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2364.8 lumens  
Efficiency: N/A  
Efficacy: 99.4 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): 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°	11737	11737	11737
5°	11695	11048	10493
10°	11705	9381	8513
15°	11700	8201	7333
20°	11638	7280	6446
25°	11456	6570	5615
30°	11114	5877	4908
35°	10530	5189	4435
40°	9695	4680	4062
45°	8687	4279	3762
50°	7634	3955	3519
55°	6633	3673	3327
60°	5729	3417	3149
65°	4935	3180	2962
70°	4227	2906	2735
75°	3529	2532	2428
80°	2785	2072	2011
85°	1784	1419	1419

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8687 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.5	6.0
10°-20°	336.5	14.2
20°-30°	427.6	18.1
30°-40°	435.5	18.4
40°-50°	385.2	16.3
50°-60°	301.9	12.8
60°-70°	205.9	8.7
70°-80°	106.0	4.5
80°-90°	23.7	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°	906.6	38.3
0°-40°	1342.1	56.8
0°-60°	2029.2	85.8
0°-90°	2364.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2364.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1660	1660	1660	1660	1660	
5°	1648	1640	1557	1496	1479	157
15°	1599	1352	1120	1021	1002	451
25°	1469	1043	842	742	720	675
35°	1220	789	601	525	514	759
45°	869	559	428	382	376	670
55°	538	373	298	271	270	484
65°	295	227	190	176	177	295
75°	129	109	93	87	89	139
85°	22	20	18	16	18	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1660.3	1660.3	1660.3	1660.3	1660.3
2.5°	1651.9	1664.9	1633.7	1625.3	1619.2
5°	1648.1	1639.8	1556.9	1496.1	1478.6
7.5°	1642.1	1595.7	1432.2	1328.8	1312.9
10°	1630.6	1526.5	1306.8	1205.7	1185.9
12.5°	1617.7	1443.6	1208.0	1105.3	1086.3
15°	1598.7	1352.4	1120.5	1021.0	1002.0
17.5°	1575.9	1265.7	1041.5	943.4	925.2
20°	1547.0	1186.7	967.7	875.0	856.8
22.5°	1511.3	1112.2	902.4	807.3	787.6
25°	1468.7	1043.0	842.3	742.0	719.9
27.5°	1420.1	976.9	780.7	676.6	655.3
30°	1361.5	912.3	719.9	618.8	601.3
32.5°	1295.4	849.9	657.6	568.6	554.2
35°	1220.1	789.1	601.3	525.3	513.9
37.5°	1138.0	729.0	552.7	485.0	475.1
40°	1050.6	670.5	507.1	447.8	440.2
42.5°	960.1	614.2	467.5	414.3	407.5
45°	868.9	558.8	428.0	381.6	376.3
47.5°	780.0	507.8	393.0	352.0	347.4
50°	694.1	459.9	359.6	323.1	320.0
52.5°	613.5	415.1	326.9	296.5	295.0
55°	538.2	373.3	298.0	270.6	269.9
57.5°	469.0	333.7	269.1	245.5	245.5
60°	405.2	296.5	241.7	221.2	222.7
62.5°	348.2	260.8	215.9	198.4	199.9
65°	295.0	227.3	190.1	175.6	177.1
67.5°	247.1	195.4	165.0	152.8	154.3
70°	204.5	165.0	140.6	130.0	132.3
72.5°	165.0	136.8	116.3	107.9	110.2
75°	129.2	108.7	92.7	86.7	88.9
77.5°	97.3	82.9	71.5	66.1	68.4
80°	68.4	59.3	50.9	47.1	49.4
82.5°	42.6	38.0	33.4	30.4	31.9
85°	22.0	20.5	17.5	16.0	17.5
87.5°	7.6	7.6	6.8	6.1	6.8
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	17.43	18.92	17.80	19.23	19.55	14.82	16.30	15.18	16.62	16.93
	3H	19.02	20.35	19.40	20.68	21.04	16.46	17.79	16.84	18.12	18.48
	4H	19.55	20.80	19.95	21.15	21.53	17.04	18.29	17.44	18.63	19.01
	6H	19.89	21.04	20.30	21.41	21.80	17.41	18.56	17.82	18.93	19.32
	8H	19.97	21.07	20.40	21.46	21.86	17.51	18.60	17.93	18.99	19.40
	12H	20.00	21.05	20.43	21.43	21.86	17.55	18.60	17.98	18.98	19.41
4H	2H	17.67	18.92	18.07	19.27	19.65	15.50	16.75	15.90	17.10	17.48
	3H	19.46	20.49	19.87	20.89	21.30	17.32	18.36	17.73	18.76	19.16
	4H	20.10	21.04	20.54	21.45	21.89	17.99	18.92	18.42	19.34	19.78
	6H	20.56	21.37	21.01	21.81	22.27	18.45	19.26	18.91	19.71	20.17
	8H	20.67	21.43	21.14	21.87	22.34	18.58	19.33	19.04	19.78	20.25
	12H	20.73	21.41	21.22	21.89	22.36	18.65	19.32	19.13	19.80	20.27
8H	4H	20.21	20.97	20.68	21.41	21.88	18.29	19.04	18.75	19.49	19.95
	6H	20.74	21.36	21.24	21.86	22.33	18.84	19.46	19.33	19.95	20.43
	8H	20.90	21.46	21.42	21.97	22.46	19.00	19.56	19.52	20.07	20.56
	12H	21.01	21.50	21.52	21.99	22.56	19.12	19.61	19.63	20.10	20.67
12H	4H	20.20	20.88	20.69	21.36	21.83	18.31	18.98	18.79	19.46	19.93
	6H	20.73	21.29	21.25	21.80	22.29	18.87	19.43	19.39	19.94	20.43
	8H	20.93	21.43	21.44	21.92	22.48	19.09	19.58	19.60	20.07	20.64