

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: P1217444

Luminaire Tested: S125DRP-H1005D950-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217444  
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-H1005D950-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

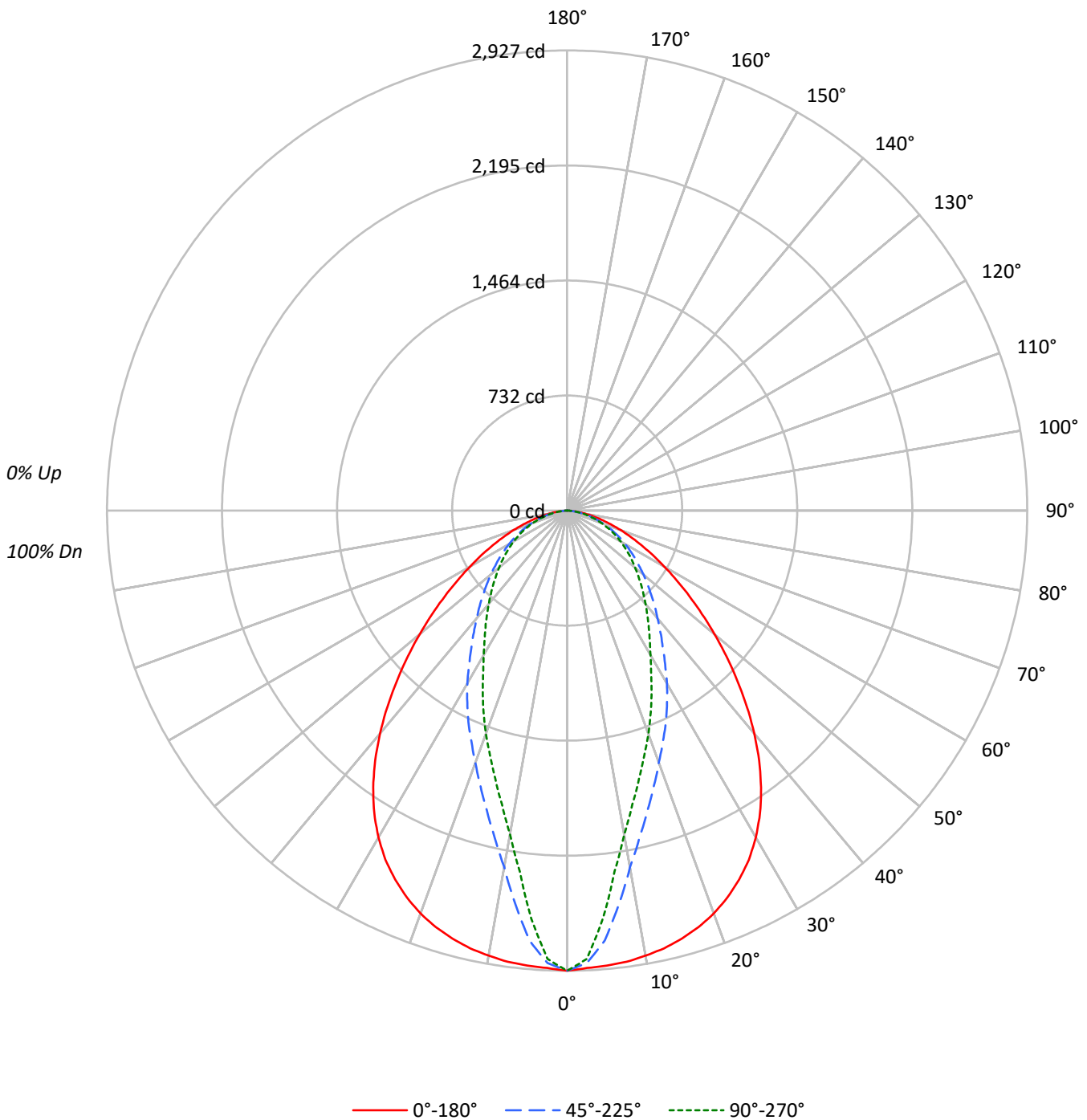
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4168.8 lumens  
Efficiency: N/A  
Efficacy: 113.9 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 (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°	20691	20691	20691
5°	20618	19477	18497
10°	20635	16537	15007
15°	20626	14457	12927
20°	20516	12834	11362
25°	20195	11582	9899
30°	19593	10360	8653
35°	18562	9148	7818
40°	17091	8249	7160
45°	15314	7543	6632
50°	13456	6972	6205
55°	11694	6474	5863
60°	10099	6026	5552
65°	8698	5604	5222
70°	7451	5124	4820
75°	6222	4466	4283
80°	4910	3656	3546
85°	3155	2498	2498

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15314 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.2	6.0
10°-20°	593.3	14.2
20°-30°	753.7	18.1
30°-40°	767.7	18.4
40°-50°	679.0	16.3
50°-60°	532.2	12.8
60°-70°	363.0	8.7
70°-80°	186.9	4.5
80°-90°	41.8	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°	1598.2	38.3
0°-40°	2365.9	56.8
0°-60°	3577.1	85.8
0°-90°	4168.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4168.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2927	2927	2927	2927	2927	
5°	2905	2891	2745	2637	2606	276
15°	2818	2384	1975	1800	1766	795
25°	2589	1839	1485	1308	1269	1190
35°	2151	1391	1060	926	906	1339
45°	1532	985	754	673	663	1182
55°	949	658	525	477	476	854
65°	520	401	335	310	312	521
75°	228	192	164	153	157	245
85°	39	36	31	28	31	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2926.8	2926.8	2926.8	2926.8	2926.8
2.5°	2912.1	2934.9	2879.9	2865.2	2854.5
5°	2905.4	2890.6	2744.6	2637.4	2606.5
7.5°	2894.7	2812.9	2524.8	2342.5	2314.4
10°	2874.6	2691.0	2303.7	2125.4	2090.6
12.5°	2851.8	2544.9	2129.4	1948.5	1915.0
15°	2818.3	2384.1	1975.3	1799.8	1766.3
17.5°	2778.1	2231.3	1836.0	1663.1	1630.9
20°	2727.1	2091.9	1706.0	1542.5	1510.3
22.5°	2664.2	1960.6	1590.7	1423.2	1388.4
25°	2589.1	1838.6	1484.9	1308.0	1269.1
27.5°	2503.3	1722.1	1376.3	1192.7	1155.2
30°	2400.2	1608.1	1269.1	1090.9	1060.0
32.5°	2283.6	1498.3	1159.2	1002.4	976.9
35°	2150.9	1391.0	1060.0	926.0	905.9
37.5°	2006.2	1285.2	974.3	855.0	837.6
40°	1852.0	1182.0	893.9	789.3	775.9
42.5°	1692.6	1082.8	824.2	730.4	718.3
45°	1531.8	985.0	754.5	672.7	663.4
47.5°	1375.0	895.2	692.8	620.5	612.4
50°	1223.5	810.8	633.9	569.6	564.2
52.5°	1081.5	731.7	576.3	522.6	520.0
55°	948.8	658.0	525.3	477.1	475.7
57.5°	826.9	588.3	474.4	432.9	432.9
60°	714.3	522.6	426.2	390.0	392.7
62.5°	613.8	459.7	380.6	349.8	352.5
65°	520.0	400.7	335.0	309.6	312.2
67.5°	435.5	344.4	290.8	269.4	272.0
70°	360.5	290.8	247.9	229.2	233.2
72.5°	290.8	241.2	205.0	190.3	194.3
75°	227.8	191.6	163.5	152.8	156.8
77.5°	171.5	146.1	126.0	116.6	120.6
80°	120.6	104.5	89.8	83.1	87.1
82.5°	75.0	67.0	59.0	53.6	56.3
85°	38.9	36.2	30.8	28.1	30.8
87.5°	13.4	13.4	12.1	10.7	12.1
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	19.40	20.89	19.77	21.20	21.52	16.79	18.28	17.15	18.59	18.90
	3H	20.99	22.32	21.37	22.65	23.01	18.43	19.76	18.81	20.09	20.46
	4H	21.52	22.77	21.92	23.12	23.50	19.01	20.26	19.41	20.61	20.98
	6H	21.86	23.01	22.27	23.38	23.77	19.38	20.53	19.79	20.90	21.29
	8H	21.94	23.04	22.37	23.43	23.83	19.48	20.58	19.90	20.96	21.37
	12H	21.97	23.02	22.40	23.40	23.83	19.52	20.57	19.95	20.96	21.38
4H	2H	19.64	20.89	20.04	21.24	21.62	17.48	18.72	17.88	19.07	19.45
	3H	21.43	22.46	21.84	22.86	23.26	19.29	20.33	19.71	20.73	21.13
	4H	22.07	23.01	22.51	23.42	23.86	19.96	20.89	20.39	21.31	21.75
	6H	22.53	23.34	22.98	23.78	24.24	20.42	21.23	20.88	21.68	22.14
	8H	22.64	23.40	23.11	23.84	24.31	20.55	21.30	21.01	21.75	22.22
	12H	22.70	23.38	23.18	23.85	24.33	20.62	21.29	21.10	21.77	22.24
8H	4H	22.18	22.94	22.65	23.38	23.85	20.26	21.01	20.72	21.46	21.92
	6H	22.71	23.33	23.21	23.82	24.30	20.81	21.43	21.30	21.92	22.40
	8H	22.87	23.43	23.39	23.94	24.43	20.98	21.53	21.49	22.04	22.53
	12H	22.98	23.47	23.49	23.96	24.53	21.09	21.58	21.60	22.07	22.64
12H	4H	22.17	22.85	22.65	23.33	23.80	20.28	20.95	20.76	21.43	21.91
	6H	22.70	23.26	23.22	23.77	24.26	20.85	21.40	21.36	21.91	22.40
	8H	22.90	23.40	23.41	23.89	24.45	21.06	21.55	21.57	22.04	22.61