

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: P1217445

Luminaire Tested: S125DRP-H290D830-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217445  
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-H290D830-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

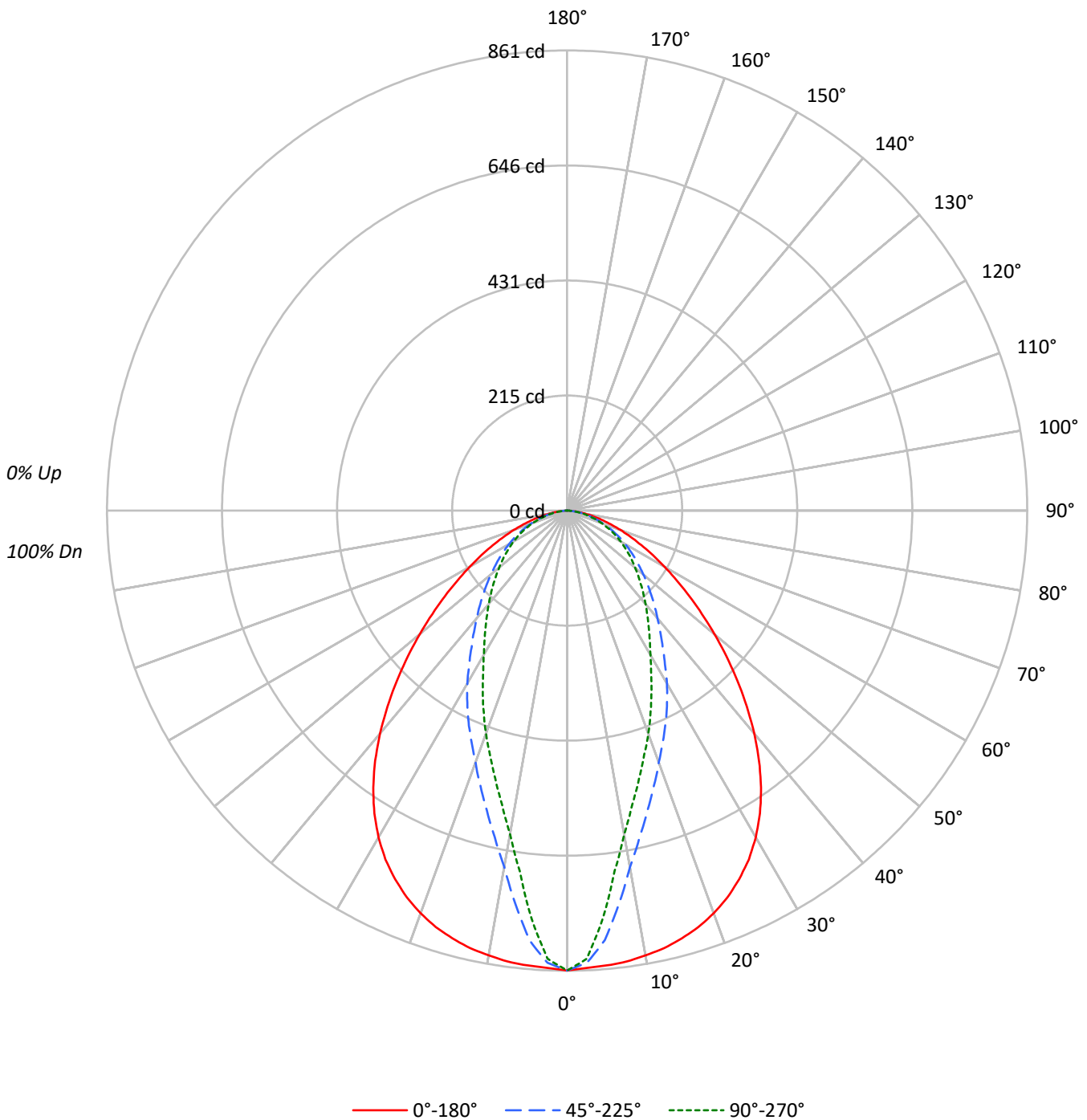
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1225.8 lumens  
Efficiency: N/A  
Efficacy: 104.8 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): 11.7  
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	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°	6084	6084	6084
5°	6062	5727	5439
10°	6067	4863	4413
15°	6065	4251	3801
20°	6033	3774	3341
25°	5938	3406	2911
30°	5761	3046	2544
35°	5459	2690	2299
40°	5026	2425	2106
45°	4503	2218	1951
50°	3957	2050	1825
55°	3439	1904	1724
60°	2969	1772	1633
65°	2558	1648	1536
70°	2191	1507	1418
75°	1830	1314	1259
80°	1445	1075	1042
85°	925	738	738

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4503 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.9	6.0
10°-20°	174.5	14.2
20°-30°	221.6	18.1
30°-40°	225.7	18.4
40°-50°	199.7	16.3
50°-60°	156.5	12.8
60°-70°	106.7	8.7
70°-80°	55.0	4.5
80°-90°	12.3	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°	469.9	38.3
0°-40°	695.7	56.8
0°-60°	1051.8	85.8
0°-90°	1225.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1225.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	854	850	807	776	766	81
15°	829	701	581	529	519	234
25°	761	541	437	385	373	350
35°	632	409	312	272	266	394
45°	450	290	222	198	195	347
55°	279	194	154	140	140	251
65°	153	118	98	91	92	153
75°	67	56	48	45	46	72
85°	11	11	9	8	9	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	860.6	860.6	860.6	860.6	860.6
2.5°	856.3	863.0	846.8	842.5	839.3
5°	854.3	850.0	807.0	775.5	766.4
7.5°	851.2	827.1	742.4	688.8	680.5
10°	845.2	791.3	677.4	625.0	614.7
12.5°	838.6	748.3	626.2	573.0	563.1
15°	828.7	701.0	580.8	529.2	519.4
17.5°	816.9	656.1	539.9	489.0	479.6
20°	801.9	615.1	501.6	453.6	444.1
22.5°	783.4	576.5	467.7	418.5	408.2
25°	761.3	540.6	436.6	384.6	373.2
27.5°	736.1	506.4	404.7	350.7	339.7
30°	705.8	472.9	373.2	320.8	311.7
32.5°	671.5	440.6	340.9	294.8	287.3
35°	632.5	409.0	311.7	272.3	266.4
37.5°	589.9	377.9	286.5	251.4	246.3
40°	544.6	347.6	262.8	232.1	228.2
42.5°	497.7	318.4	242.3	214.8	211.2
45°	450.4	289.6	221.9	197.8	195.1
47.5°	404.3	263.2	203.7	182.4	180.1
50°	359.8	238.4	186.4	167.5	165.9
52.5°	318.0	215.2	169.4	153.7	152.9
55°	279.0	193.5	154.5	140.3	139.9
57.5°	243.1	173.0	139.5	127.3	127.3
60°	210.0	153.7	125.3	114.7	115.5
62.5°	180.5	135.2	111.9	102.8	103.6
65°	152.9	117.8	98.5	91.0	91.8
67.5°	128.1	101.3	85.5	79.2	80.0
70°	106.0	85.5	72.9	67.4	68.6
72.5°	85.5	70.9	60.3	56.0	57.1
75°	67.0	56.3	48.1	44.9	46.1
77.5°	50.4	43.0	37.0	34.3	35.5
80°	35.5	30.7	26.4	24.4	25.6
82.5°	22.1	19.7	17.3	15.8	16.6
85°	11.4	10.6	9.1	8.3	9.1
87.5°	3.9	3.9	3.5	3.2	3.5
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	15.15	16.64	15.51	16.95	17.26	12.54	14.02	12.90	14.34	14.65
	3H	16.74	18.07	17.12	18.40	18.76	14.18	15.51	14.56	15.84	16.20
	4H	17.27	18.52	17.67	18.87	19.25	14.75	16.00	15.15	16.35	16.73
	6H	17.61	18.76	18.02	19.13	19.52	15.13	16.28	15.54	16.65	17.04
	8H	17.69	18.78	18.11	19.17	19.58	15.23	16.32	15.65	16.71	17.11
	12H	17.72	18.77	18.15	19.15	19.58	15.27	16.32	15.70	16.70	17.13
4H	2H	15.39	16.64	15.79	16.99	17.37	13.22	14.47	13.62	14.82	15.20
	3H	17.17	18.21	17.59	18.61	19.01	15.04	16.08	15.45	16.48	16.88
	4H	17.82	18.75	18.25	19.17	19.61	15.71	16.64	16.14	17.05	17.49
	6H	18.27	19.08	18.73	19.53	19.99	16.17	16.98	16.63	17.42	17.89
	8H	18.39	19.14	18.85	19.59	20.06	16.30	17.05	16.76	17.50	17.96
	12H	18.45	19.12	18.93	19.60	20.07	16.37	17.04	16.85	17.52	17.99
8H	4H	17.93	18.68	18.39	19.13	19.60	16.00	16.76	16.47	17.20	17.67
	6H	18.46	19.08	18.95	19.57	20.05	16.55	17.18	17.05	17.67	18.15
	8H	18.62	19.18	19.13	19.69	20.18	16.72	17.28	17.24	17.79	18.28
	12H	18.72	19.22	19.23	19.71	20.27	16.84	17.33	17.35	17.82	18.39
12H	4H	17.92	18.59	18.40	19.07	19.54	16.03	16.70	16.51	17.18	17.65
	6H	18.45	19.01	18.97	19.52	20.01	16.59	17.15	17.11	17.66	18.15
	8H	18.65	19.14	19.16	19.64	20.20	16.81	17.30	17.32	17.79	18.36