

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: P1217480

Luminaire Tested: S125DRP-H865D950-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217480
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-H865D950-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

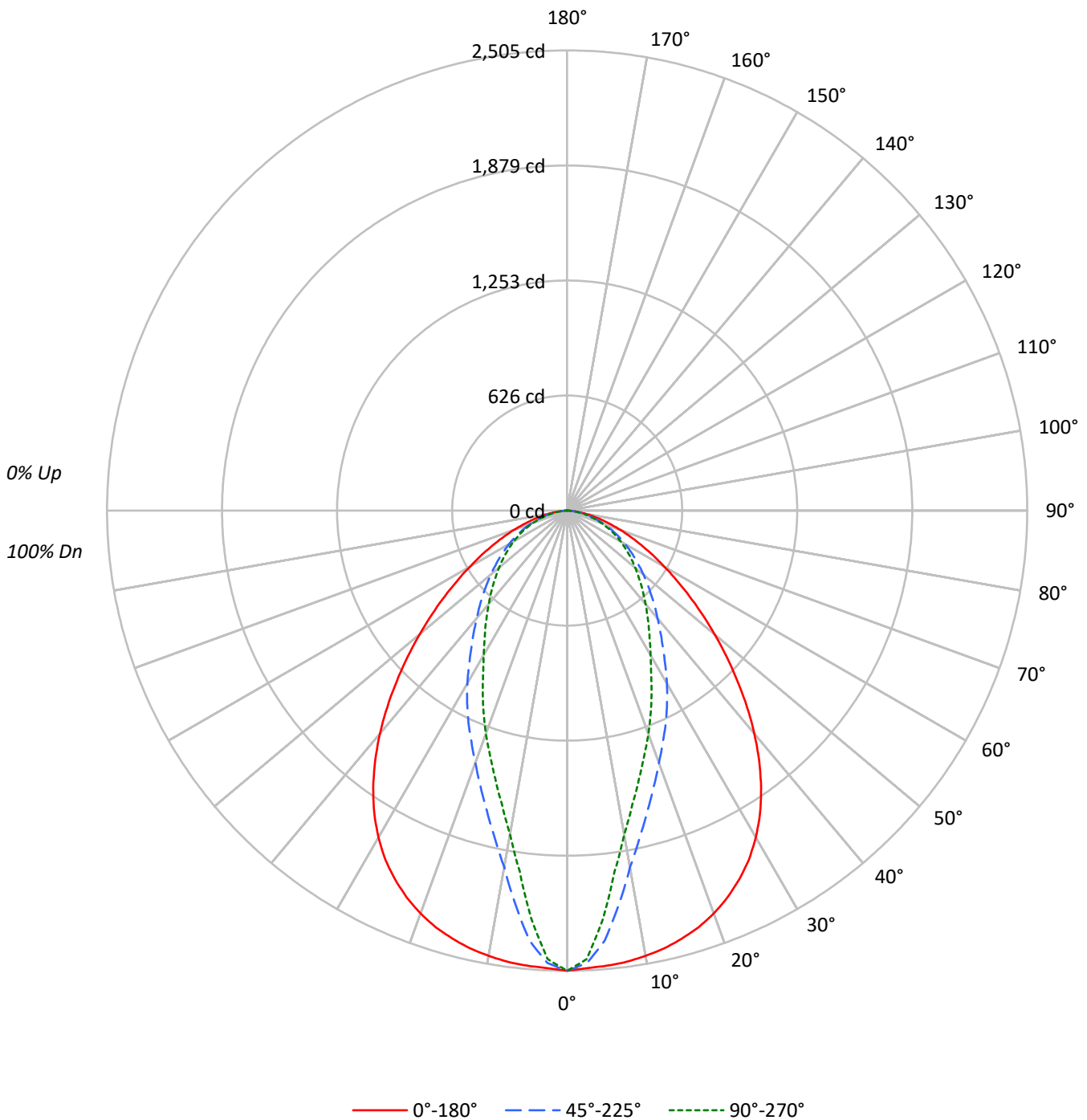
Lumens per Lamp: N/A
Luminaire Lumens: 3568.6 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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°	17712	17712	17712
5°	17649	16672	15834
10°	17664	14156	12846
15°	17656	12375	11066
20°	17563	10987	9727
25°	17288	9915	8474
30°	16772	8868	7407
35°	15890	7831	6693
40°	14631	7062	6129
45°	13109	6457	5678
50°	11519	5967	5312
55°	10010	5543	5019
60°	8644	5158	4752
65°	7445	4797	4471
70°	6379	4386	4126
75°	5326	3824	3666
80°	4201	3131	3037
85°	2701	2141	2141

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13109 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.0	6.0
10°-20°	507.9	14.2
20°-30°	645.2	18.1
30°-40°	657.2	18.4
40°-50°	581.3	16.3
50°-60°	455.6	12.8
60°-70°	310.7	8.7
70°-80°	160.0	4.5
80°-90°	35.8	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°	1368.1	38.3
0°-40°	2025.3	56.8
0°-60°	3062.1	85.8
0°-90°	3568.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3568.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2505	2505	2505	2505	2505	
5°	2487	2474	2349	2258	2231	237
15°	2412	2041	1691	1541	1512	681
25°	2216	1574	1271	1120	1086	1019
35°	1841	1191	907	793	776	1146
45°	1311	843	646	576	568	1011
55°	812	563	450	408	407	731
65°	445	343	287	265	267	446
75°	195	164	140	131	134	210
85°	33	31	26	24	26	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2505.4	2505.4	2505.4	2505.4	2505.4
2.5°	2492.8	2512.3	2465.3	2452.7	2443.5
5°	2487.1	2474.5	2349.4	2257.7	2231.3
7.5°	2477.9	2407.9	2161.3	2005.3	1981.2
10°	2460.7	2303.5	1972.0	1819.4	1789.6
12.5°	2441.2	2178.5	1822.9	1668.0	1639.3
15°	2412.5	2040.8	1690.9	1540.7	1512.0
17.5°	2378.1	1910.1	1571.6	1423.7	1396.1
20°	2334.5	1790.7	1460.4	1320.4	1292.9
22.5°	2280.6	1678.3	1361.7	1218.3	1188.5
25°	2216.4	1573.9	1271.1	1119.6	1086.4
27.5°	2142.9	1474.1	1178.2	1021.0	988.9
30°	2054.6	1376.6	1086.4	933.8	907.4
32.5°	1954.8	1282.5	992.3	858.1	836.3
35°	1841.2	1190.8	907.4	792.7	775.5
37.5°	1717.3	1100.1	834.0	731.9	717.0
40°	1585.4	1011.8	765.2	675.7	664.2
42.5°	1448.9	926.9	705.5	625.2	614.9
45°	1311.2	843.2	645.9	575.9	567.9
47.5°	1177.0	766.3	593.1	531.1	524.3
50°	1047.4	694.0	542.6	487.6	483.0
52.5°	925.8	626.4	493.3	447.4	445.1
55°	812.2	563.3	449.7	408.4	407.2
57.5°	707.8	503.6	406.1	370.5	370.5
60°	611.4	447.4	364.8	333.8	336.1
62.5°	525.4	393.5	325.8	299.4	301.7
65°	445.1	343.0	286.8	265.0	267.3
67.5°	372.8	294.8	248.9	230.6	232.9
70°	308.6	248.9	212.2	196.2	199.6
72.5°	248.9	206.5	175.5	162.9	166.3
75°	195.0	164.0	140.0	130.8	134.2
77.5°	146.8	125.0	107.8	99.8	103.2
80°	103.2	89.5	76.9	71.1	74.6
82.5°	64.2	57.4	50.5	45.9	48.2
85°	33.3	31.0	26.4	24.1	26.4
87.5°	11.5	11.5	10.3	9.2	10.3
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	18.86	20.35	19.23	20.66	20.98	16.25	17.73	16.61	18.05	18.36
	3H	20.45	21.78	20.83	22.11	22.47	17.89	19.22	18.27	19.55	19.91
	4H	20.98	22.23	21.38	22.58	22.96	18.47	19.72	18.87	20.06	20.44
	6H	21.32	22.47	21.73	22.84	23.23	18.84	19.99	19.25	20.36	20.75
	8H	21.40	22.50	21.83	22.89	23.29	18.94	20.03	19.36	20.42	20.83
	12H	21.43	22.48	21.86	22.86	23.29	18.98	20.03	19.41	20.41	20.84
4H	2H	19.10	20.35	19.50	20.70	21.08	16.93	18.18	17.33	18.53	18.91
	3H	20.89	21.92	21.30	22.32	22.72	18.75	19.79	19.16	20.19	20.59
	4H	21.53	22.46	21.97	22.88	23.32	19.42	20.35	19.85	20.77	21.21
	6H	21.99	22.80	22.44	23.24	23.70	19.88	20.69	20.34	21.14	21.60
	8H	22.10	22.86	22.56	23.30	23.77	20.01	20.76	20.47	21.21	21.68
	12H	22.16	22.84	22.64	23.31	23.79	20.08	20.75	20.56	21.23	21.70
8H	4H	21.64	22.40	22.11	22.84	23.31	19.72	20.47	20.18	20.92	21.38
	6H	22.17	22.79	22.67	23.28	23.76	20.27	20.89	20.76	21.38	21.86
	8H	22.33	22.89	22.85	23.40	23.89	20.43	20.99	20.95	21.50	21.99
	12H	22.44	22.93	22.95	23.42	23.99	20.55	21.04	21.06	21.53	22.10
12H	4H	21.63	22.31	22.11	22.78	23.26	19.74	20.41	20.22	20.89	21.36
	6H	22.16	22.72	22.68	23.23	23.72	20.30	20.86	20.82	21.37	21.86
	8H	22.36	22.86	22.87	23.35	23.91	20.52	21.01	21.03	21.50	22.07