

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: P1217440

Luminaire Tested: S125DRP-H1005D927-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217440
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-H1005D927-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

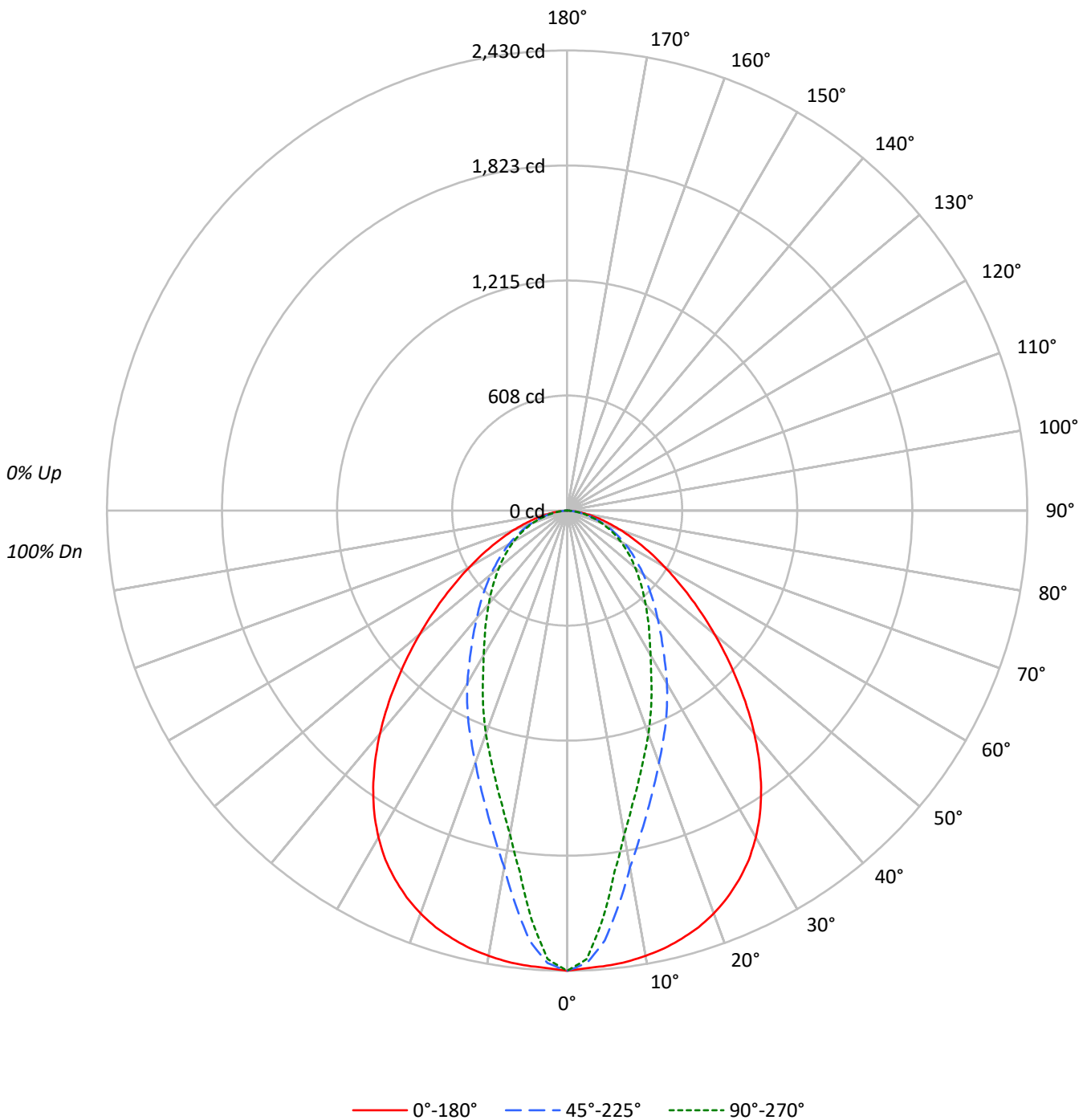
Lumens per Lamp: N/A
Luminaire Lumens: 3461.6 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	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°	17181	17181	17181
5°	17121	16173	15359
10°	17135	13732	12462
15°	17127	12005	10734
20°	17037	10657	9435
25°	16770	9618	8220
30°	16269	8602	7185
35°	15414	7596	6492
40°	14192	6849	5946
45°	12716	6263	5507
50°	11174	5789	5153
55°	9711	5376	4868
60°	8386	5004	4611
65°	7223	4654	4337
70°	6186	4256	4002
75°	5168	3709	3556
80°	4079	3037	2943
85°	2620	2076	2076

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12716 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.6	6.0
10°-20°	492.6	14.2
20°-30°	625.9	18.1
30°-40°	637.5	18.4
40°-50°	563.8	16.3
50°-60°	441.9	12.8
60°-70°	301.4	8.7
70°-80°	155.2	4.5
80°-90°	34.7	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°	1327.1	38.3
0°-40°	1964.6	56.8
0°-60°	2970.3	85.8
0°-90°	3461.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3461.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2430	2430	2430	2430	2430	
5°	2413	2400	2279	2190	2164	230
15°	2340	1980	1640	1494	1467	660
25°	2150	1527	1233	1086	1054	988
35°	1786	1155	880	769	752	1112
45°	1272	818	626	559	551	981
55°	788	546	436	396	395	709
65°	432	333	278	257	259	432
75°	189	159	136	127	130	204
85°	32	30	26	23	26	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2430.4	2430.4	2430.4	2430.4	2430.4
2.5°	2418.1	2437.0	2391.4	2379.2	2370.3
5°	2412.6	2400.3	2279.0	2190.0	2164.4
7.5°	2403.7	2335.8	2096.5	1945.2	1921.8
10°	2387.0	2234.5	1912.9	1764.9	1736.0
12.5°	2368.1	2113.2	1768.2	1618.0	1590.2
15°	2340.2	1979.7	1640.3	1494.5	1466.7
17.5°	2306.8	1852.8	1524.5	1381.0	1354.3
20°	2264.6	1737.1	1416.6	1280.8	1254.1
22.5°	2212.3	1628.0	1320.9	1181.8	1152.9
25°	2149.9	1526.8	1233.0	1086.1	1053.8
27.5°	2078.7	1430.0	1142.9	990.4	959.2
30°	1993.0	1335.4	1053.8	905.8	880.2
32.5°	1896.2	1244.1	962.6	832.4	811.2
35°	1786.1	1155.1	880.2	768.9	752.3
37.5°	1665.9	1067.2	809.0	710.0	695.5
40°	1537.9	981.5	742.2	655.4	644.3
42.5°	1405.5	899.1	684.4	606.5	596.5
45°	1271.9	817.9	626.5	558.6	550.8
47.5°	1141.7	743.4	575.3	515.2	508.6
50°	1016.0	673.2	526.4	472.9	468.5
52.5°	898.0	607.6	478.5	434.0	431.8
55°	787.9	546.4	436.2	396.2	395.0
57.5°	686.6	488.5	393.9	359.4	359.4
60°	593.1	434.0	353.9	323.8	326.1
62.5°	509.7	381.7	316.0	290.4	292.7
65°	431.8	332.7	278.2	257.1	259.3
67.5°	361.7	286.0	241.5	223.7	225.9
70°	299.3	241.5	205.9	190.3	193.6
72.5°	241.5	200.3	170.3	158.0	161.4
75°	189.2	159.1	135.8	126.9	130.2
77.5°	142.4	121.3	104.6	96.8	100.2
80°	100.2	86.8	74.6	69.0	72.3
82.5°	62.3	55.6	49.0	44.5	46.7
85°	32.3	30.0	25.6	23.4	25.6
87.5°	11.1	11.1	10.0	8.9	10.0
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	18.76	20.24	19.12	20.56	20.87	16.14	17.63	16.51	17.94	18.26
	3H	20.34	21.68	20.72	22.00	22.37	17.79	19.12	18.16	19.45	19.81
	4H	20.88	22.13	21.28	22.48	22.85	18.36	19.61	18.76	19.96	20.34
	6H	21.21	22.37	21.63	22.73	23.13	18.74	19.89	19.15	20.26	20.65
	8H	21.29	22.39	21.72	22.78	23.18	18.83	19.93	19.26	20.32	20.72
	12H	21.33	22.38	21.76	22.76	23.19	18.88	19.93	19.31	20.31	20.74
4H	2H	19.00	20.25	19.40	20.60	20.98	16.83	18.08	17.23	18.43	18.81
	3H	20.78	21.82	21.19	22.22	22.62	18.65	19.68	19.06	20.08	20.49
	4H	21.43	22.36	21.86	22.78	23.22	19.31	20.24	19.75	20.66	21.10
	6H	21.88	22.69	22.34	23.13	23.59	19.78	20.59	20.24	21.03	21.49
	8H	22.00	22.75	22.46	23.20	23.66	19.90	20.66	20.37	21.10	21.57
	12H	22.06	22.73	22.54	23.21	23.68	19.97	20.65	20.45	21.13	21.60
8H	4H	21.54	22.29	22.00	22.74	23.20	19.61	20.37	20.07	20.81	21.28
	6H	22.06	22.69	22.56	23.18	23.66	20.16	20.78	20.66	21.28	21.75
	8H	22.23	22.78	22.74	23.29	23.78	20.33	20.89	20.84	21.40	21.89
	12H	22.33	22.82	22.84	23.32	23.88	20.44	20.93	20.95	21.43	21.99
12H	4H	21.53	22.20	22.01	22.68	23.15	19.63	20.31	20.12	20.79	21.26
	6H	22.06	22.62	22.57	23.13	23.62	20.20	20.76	20.71	21.27	21.76
	8H	22.26	22.75	22.77	23.24	23.81	20.41	20.90	20.92	21.40	21.96