

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: P1217467

Luminaire Tested: S125DRP-H675D927-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217467
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-H675D927-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

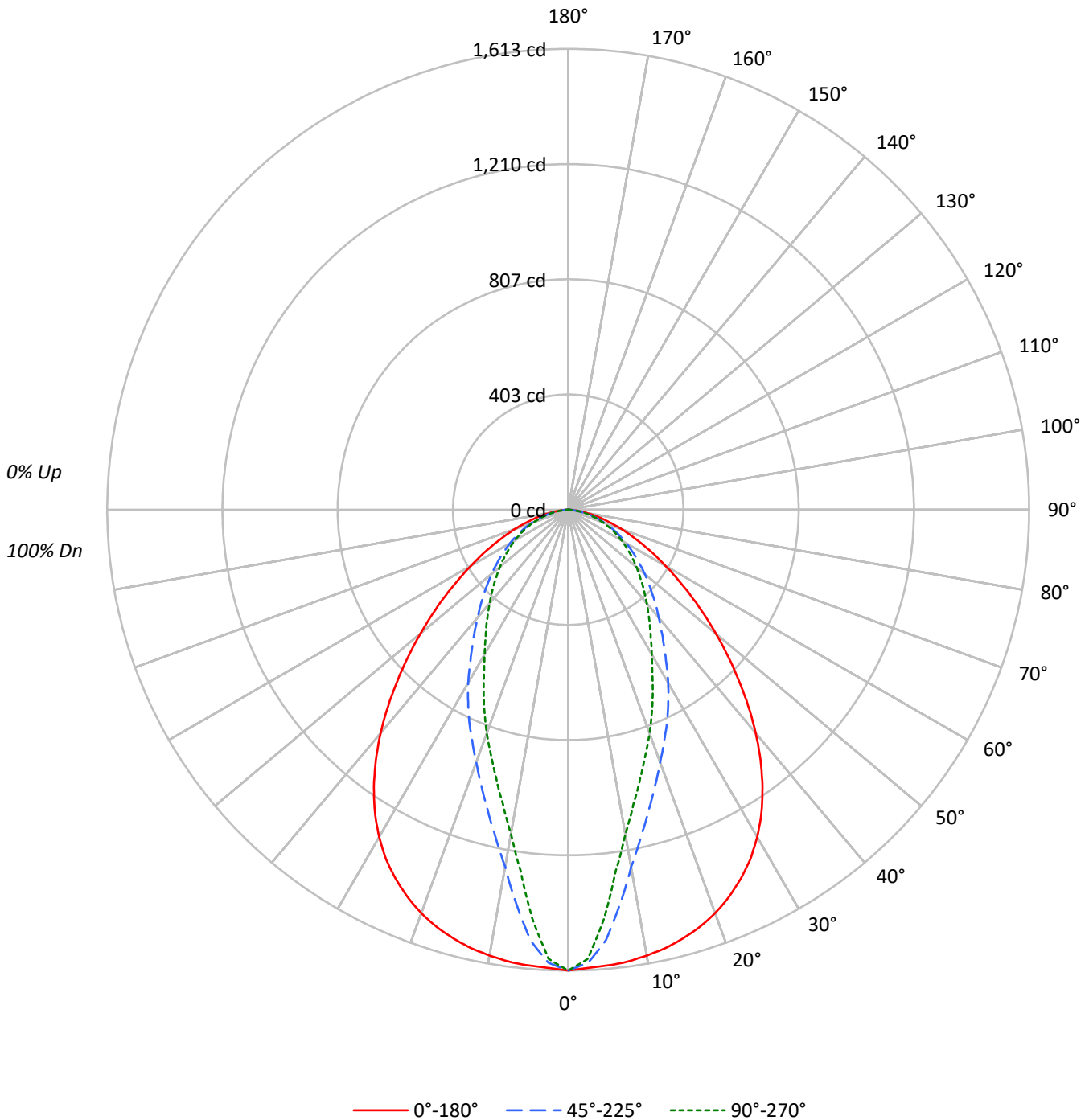
Lumens per Lamp: N/A
Luminaire Lumens: 2297.8 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	11404	11404	11404
5°	11364	10735	10195
10°	11373	9114	8272
15°	11369	7969	7125
20°	11309	7074	6263
25°	11132	6384	5456
30°	10799	5710	4770
35°	10231	5043	4309
40°	9420	4547	3947
45°	8441	4158	3655
50°	7417	3843	3420
55°	6446	3569	3232
60°	5566	3321	3060
65°	4794	3090	2879
70°	4107	2826	2656
75°	3431	2461	2360
80°	2707	2015	1954
85°	1736	1379	1379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8441 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	6.0
10°-20°	327.0	14.2
20°-30°	415.4	18.1
30°-40°	423.1	18.4
40°-50°	374.3	16.3
50°-60°	293.3	12.8
60°-70°	200.1	8.7
70°-80°	103.0	4.5
80°-90°	23.0	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°	880.9	38.3
0°-40°	1304.0	56.8
0°-60°	1971.7	85.8
0°-90°	2297.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2297.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1613	1613	1613	1613	1613	
5°	1601	1593	1513	1454	1437	152
15°	1553	1314	1089	992	974	438
25°	1427	1013	818	721	700	656
35°	1186	767	584	510	499	738
45°	844	543	416	371	366	651
55°	523	363	290	263	262	471
65°	287	221	185	171	172	287
75°	126	106	90	84	86	135
85°	21	20	17	16	17	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1613.2	1613.2	1613.2	1613.2	1613.2
2.5°	1605.1	1617.7	1587.4	1579.2	1573.3
5°	1601.4	1593.3	1512.8	1453.7	1436.7
7.5°	1595.5	1550.4	1391.6	1291.2	1275.7
10°	1584.4	1483.2	1269.7	1171.5	1152.3
12.5°	1571.9	1402.7	1173.7	1074.0	1055.5
15°	1553.4	1314.1	1088.8	992.0	973.5
17.5°	1531.2	1229.9	1012.0	916.7	898.9
20°	1503.2	1153.0	940.3	850.2	832.5
22.5°	1468.4	1080.6	876.8	784.4	765.2
25°	1427.1	1013.4	818.4	720.9	699.5
27.5°	1379.8	949.2	758.6	657.4	636.7
30°	1322.9	886.4	699.5	601.3	584.3
32.5°	1258.7	825.8	638.9	552.5	538.5
35°	1185.5	766.7	584.3	510.4	499.3
37.5°	1105.8	708.4	537.0	471.3	461.7
40°	1020.8	651.5	492.7	435.1	427.7
42.5°	932.9	596.8	454.3	402.6	395.9
45°	844.3	542.9	415.9	370.8	365.6
47.5°	757.9	493.4	381.9	342.0	337.6
50°	674.4	446.9	349.4	313.9	311.0
52.5°	596.1	403.3	317.6	288.1	286.6
55°	523.0	362.7	289.6	263.0	262.2
57.5°	455.7	324.3	261.5	238.6	238.6
60°	393.7	288.1	234.9	214.9	216.4
62.5°	338.3	253.4	209.8	192.8	194.3
65°	286.6	220.9	184.7	170.6	172.1
67.5°	240.1	189.8	160.3	148.5	149.9
70°	198.7	160.3	136.7	126.3	128.5
72.5°	160.3	133.0	113.0	104.9	107.1
75°	125.6	105.6	90.1	84.2	86.4
77.5°	94.5	80.5	69.4	64.3	66.5
80°	66.5	57.6	49.5	45.8	48.0
82.5°	41.4	36.9	32.5	29.5	31.0
85°	21.4	19.9	17.0	15.5	17.0
87.5°	7.4	7.4	6.6	5.9	6.6
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	17.33	18.82	17.70	19.13	19.45	14.72	16.21	15.08	16.52	16.83
	3H	18.92	20.25	19.30	20.58	20.94	16.36	17.69	16.74	18.02	18.38
	4H	19.45	20.70	19.85	21.05	21.43	16.94	18.19	17.34	18.53	18.91
	6H	19.79	20.94	20.20	21.31	21.70	17.31	18.46	17.72	18.83	19.22
	8H	19.87	20.97	20.30	21.36	21.76	17.41	18.50	17.83	18.89	19.30
	12H	19.90	20.95	20.33	21.33	21.76	17.45	18.50	17.88	18.89	19.31
4H	2H	17.57	18.82	17.97	19.17	19.55	15.41	16.65	15.81	17.00	17.38
	3H	19.36	20.39	19.77	20.79	21.20	17.22	18.26	17.64	18.66	19.06
	4H	20.00	20.94	20.44	21.35	21.79	17.89	18.82	18.32	19.24	19.68
	6H	20.46	21.27	20.92	21.71	22.17	18.36	19.16	18.81	19.61	20.07
	8H	20.57	21.33	21.04	21.77	22.24	18.48	19.23	18.94	19.68	20.15
	12H	20.63	21.31	21.12	21.79	22.26	18.55	19.22	19.03	19.70	20.17
8H	4H	20.11	20.87	20.58	21.31	21.78	18.19	18.94	18.65	19.39	19.85
	6H	20.64	21.26	21.14	21.76	22.23	18.74	19.36	19.23	19.85	20.33
	8H	20.80	21.36	21.32	21.87	22.36	18.90	19.46	19.42	19.97	20.46
	12H	20.91	21.40	21.42	21.89	22.46	19.02	19.51	19.53	20.00	20.57
12H	4H	20.10	20.78	20.59	21.26	21.73	18.21	18.88	18.69	19.36	19.84
	6H	20.63	21.19	21.15	21.70	22.19	18.78	19.33	19.29	19.85	20.33
	8H	20.83	21.33	21.34	21.82	22.38	18.99	19.48	19.50	19.97	20.54