

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: P1217469

Luminaire Tested: S125DRP-H675D935-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217469  
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-H675D935-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

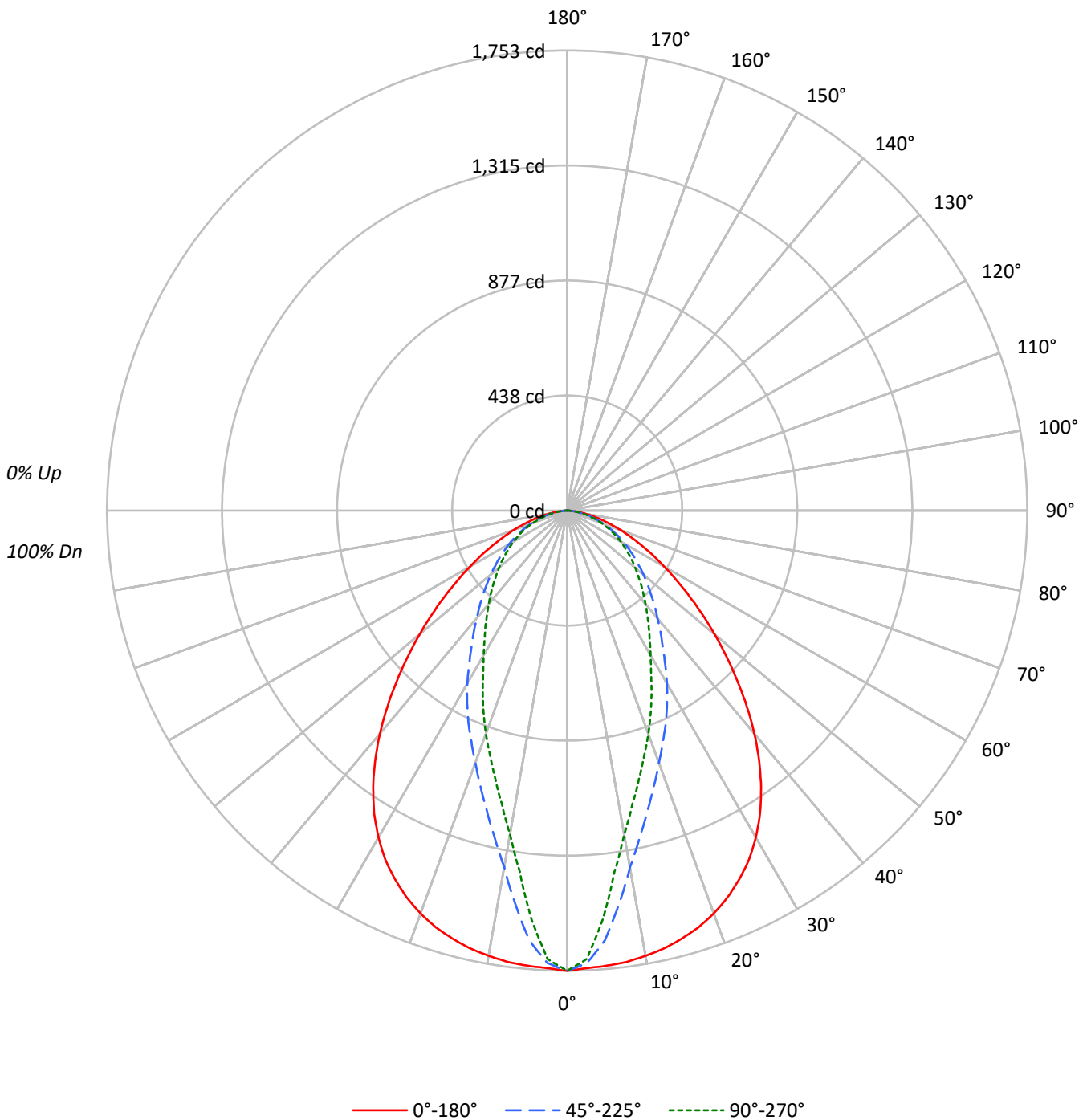
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2497.3 lumens  
Efficiency: N/A  
Efficacy: 104.9 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): 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	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°	12395	12395	12395
5°	12351	11668	11081
10°	12361	9906	8990
15°	12356	8661	7744
20°	12290	7689	6807
25°	12098	6938	5930
30°	11738	6206	5183
35°	11120	5480	4684
40°	10239	4942	4289
45°	9174	4519	3973
50°	8061	4176	3717
55°	7006	3879	3513
60°	6050	3610	3325
65°	5211	3357	3130
70°	4465	3069	2888
75°	3728	2674	2565
80°	2943	2190	2125
85°	1890	1501	1501

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9174 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.5	6.0
10°-20°	355.4	14.2
20°-30°	451.5	18.1
30°-40°	459.9	18.4
40°-50°	406.8	16.3
50°-60°	318.8	12.8
60°-70°	217.4	8.7
70°-80°	112.0	4.5
80°-90°	25.0	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°	957.4	38.3
0°-40°	1417.3	56.8
0°-60°	2142.9	85.8
0°-90°	2497.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2497.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1753	1753	1753	1753	1753	
5°	1740	1732	1644	1580	1562	166
15°	1688	1428	1183	1078	1058	476
25°	1551	1102	890	784	760	713
35°	1288	833	635	555	543	802
45°	918	590	452	403	397	708
55°	568	394	315	286	285	511
65°	312	240	201	186	187	312
75°	136	115	98	92	94	147
85°	23	22	18	17	18	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1753.4	1753.4	1753.4	1753.4	1753.4
2.5°	1744.5	1758.2	1725.3	1716.4	1710.0
5°	1740.5	1731.7	1644.2	1579.9	1561.5
7.5°	1734.1	1685.1	1512.5	1403.3	1386.5
10°	1722.0	1612.1	1380.0	1273.3	1252.4
12.5°	1708.4	1524.6	1275.7	1167.3	1147.2
15°	1688.3	1428.2	1183.4	1078.2	1058.1
17.5°	1664.2	1336.7	1099.9	996.3	977.0
20°	1633.7	1253.2	1022.0	924.0	904.8
22.5°	1596.0	1174.5	952.9	852.6	831.7
25°	1551.0	1101.5	889.5	783.6	760.3
27.5°	1499.7	1031.6	824.5	714.5	692.0
30°	1437.9	963.4	760.3	653.5	635.0
32.5°	1368.0	897.6	694.4	600.5	585.3
35°	1288.5	833.3	635.0	554.7	542.7
37.5°	1201.8	769.9	583.7	512.2	501.8
40°	1109.5	708.1	535.5	472.9	464.8
42.5°	1014.0	648.7	493.7	437.5	430.3
45°	917.6	590.1	452.0	403.0	397.4
47.5°	823.7	536.3	415.1	371.7	366.9
50°	733.0	485.7	379.7	341.2	338.0
52.5°	647.9	438.3	345.2	313.1	311.5
55°	568.4	394.2	314.7	285.8	285.0
57.5°	495.3	352.4	284.2	259.3	259.3
60°	427.9	313.1	255.3	233.6	235.2
62.5°	367.7	275.4	228.0	209.5	211.1
65°	311.5	240.0	200.7	185.5	187.1
67.5°	260.9	206.3	174.2	161.4	163.0
70°	216.0	174.2	148.5	137.3	139.7
72.5°	174.2	144.5	122.8	114.0	116.4
75°	136.5	114.8	97.9	91.5	93.9
77.5°	102.8	87.5	75.5	69.8	72.3
80°	72.3	62.6	53.8	49.8	52.2
82.5°	45.0	40.1	35.3	32.1	33.7
85°	23.3	21.7	18.5	16.9	18.5
87.5°	8.0	8.0	7.2	6.4	7.2
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	17.62	19.11	17.99	19.42	19.74	15.01	16.49	15.37	16.81	17.12
	3H	19.21	20.54	19.59	20.87	21.23	16.65	17.98	17.03	18.31	18.67
	4H	19.74	20.99	20.14	21.34	21.72	17.23	18.48	17.63	18.82	19.20
	6H	20.08	21.23	20.49	21.60	21.99	17.60	18.75	18.01	19.12	19.51
	8H	20.16	21.26	20.59	21.65	22.05	17.70	18.79	18.12	19.18	19.59
	12H	20.19	21.24	20.62	21.62	22.05	17.74	18.79	18.17	19.18	19.60
4H	2H	17.86	19.11	18.26	19.46	19.84	15.69	16.94	16.09	17.29	17.67
	3H	19.65	20.68	20.06	21.08	21.48	17.51	18.55	17.92	18.95	19.35
	4H	20.29	21.22	20.73	21.64	22.08	18.18	19.11	18.61	19.53	19.97
	6H	20.75	21.56	21.20	22.00	22.46	18.64	19.45	19.10	19.90	20.36
	8H	20.86	21.62	21.33	22.06	22.53	18.77	19.52	19.23	19.97	20.44
	12H	20.92	21.60	21.40	22.08	22.55	18.84	19.51	19.32	19.99	20.46
8H	4H	20.40	21.16	20.87	21.60	22.07	18.48	19.23	18.94	19.68	20.14
	6H	20.93	21.55	21.43	22.04	22.52	19.03	19.65	19.52	20.14	20.62
	8H	21.09	21.65	21.61	22.16	22.65	19.19	19.75	19.71	20.26	20.75
	12H	21.20	21.69	21.71	22.18	22.75	19.31	19.80	19.82	20.29	20.86
12H	4H	20.39	21.07	20.87	21.54	22.02	18.50	19.17	18.98	19.65	20.12
	6H	20.92	21.48	21.44	21.99	22.48	19.06	19.62	19.58	20.13	20.62
	8H	21.12	21.62	21.63	22.11	22.67	19.28	19.77	19.79	20.26	20.83