

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: P1217509

Luminaire Tested: S125DRP-S675D835-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217509  
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-S675D835-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

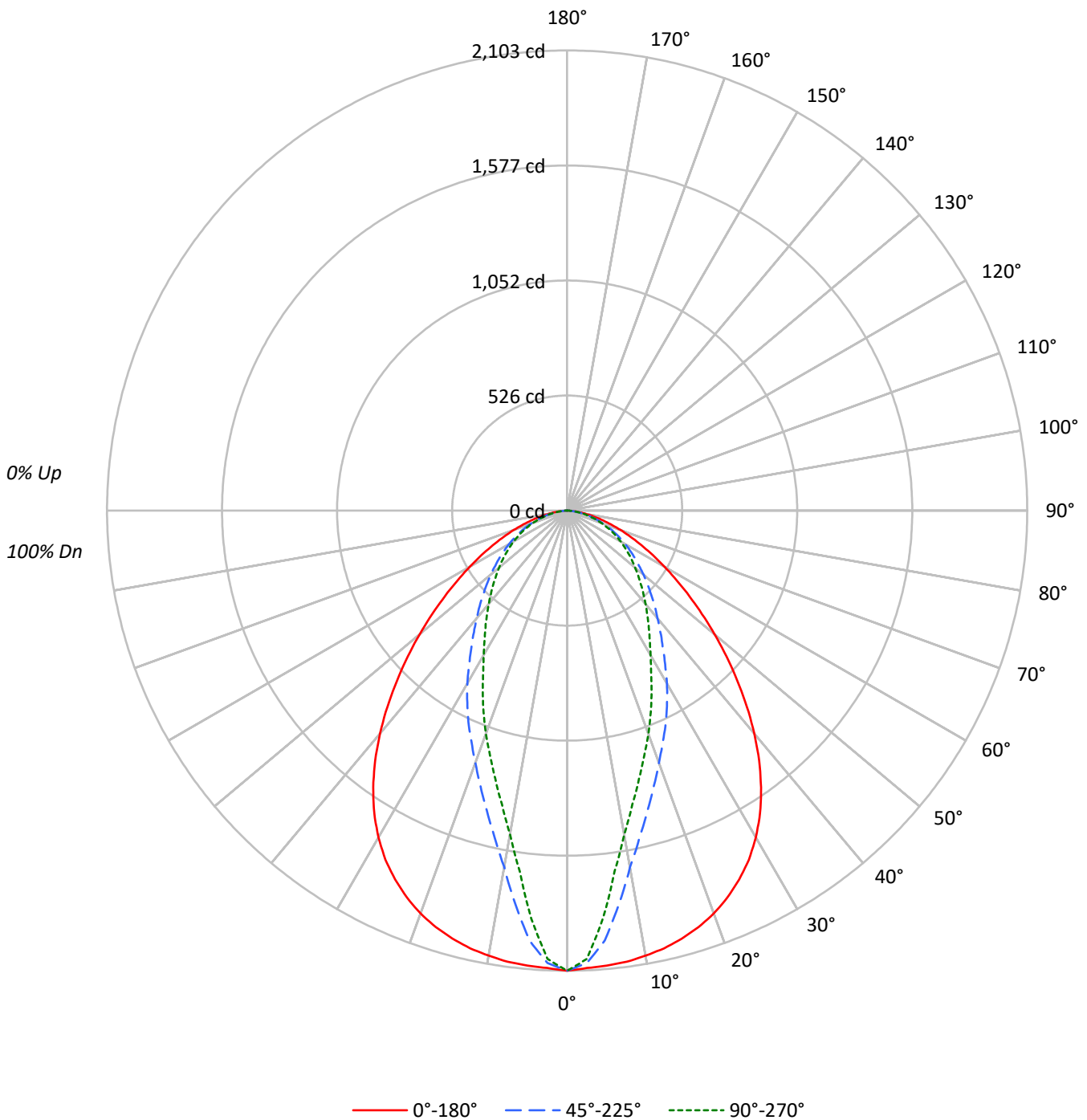
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2995.2 lumens  
Efficiency: N/A  
Efficacy: 113.5 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): 26.4  
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°	14866	14866	14866
5°	14814	13994	13290
10°	14826	11882	10783
15°	14820	10387	9288
20°	14741	9222	8164
25°	14511	8322	7113
30°	14077	7444	6217
35°	13337	6573	5617
40°	12280	5926	5145
45°	11003	5420	4765
50°	9668	5008	4459
55°	8402	4653	4213
60°	7256	4329	3989
65°	6249	4026	3754
70°	5353	3681	3462
75°	4471	3209	3078
80°	3530	2626	2548
85°	2263	1793	1793

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11003 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.5	6.0
10°-20°	426.3	14.2
20°-30°	541.6	18.1
30°-40°	551.6	18.4
40°-50°	487.9	16.3
50°-60°	382.4	12.8
60°-70°	260.8	8.7
70°-80°	134.3	4.5
80°-90°	30.0	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°	1148.3	38.3
0°-40°	1699.9	56.8
0°-60°	2570.2	85.8
0°-90°	2995.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2995.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2103	2103	2103	2103	2103	
5°	2088	2077	1972	1895	1873	199
15°	2025	1713	1419	1293	1269	571
25°	1860	1321	1067	940	912	855
35°	1545	1000	762	665	651	962
45°	1101	708	542	483	477	849
55°	682	473	378	343	342	613
65°	374	288	241	222	224	374
75°	164	138	118	110	113	176
85°	28	26	22	20	22	37
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2102.9	2102.9	2102.9	2102.9	2102.9
2.5°	2092.4	2108.7	2069.2	2058.6	2050.9
5°	2087.5	2076.9	1972.0	1895.0	1872.8
7.5°	2079.8	2021.1	1814.1	1683.1	1662.9
10°	2065.4	1933.5	1655.2	1527.1	1502.1
12.5°	2049.0	1828.5	1530.0	1400.0	1376.0
15°	2024.9	1713.0	1419.3	1293.2	1269.1
17.5°	1996.1	1603.2	1319.2	1194.9	1171.8
20°	1959.5	1503.1	1225.8	1108.3	1085.2
22.5°	1914.2	1408.7	1142.9	1022.6	997.5
25°	1860.3	1321.1	1066.9	939.8	911.9
27.5°	1798.7	1237.3	988.9	857.0	830.0
30°	1724.5	1155.5	911.9	783.8	761.6
32.5°	1640.8	1076.5	832.9	720.2	701.9
35°	1545.4	999.5	761.6	665.4	650.9
37.5°	1441.4	923.4	700.0	614.3	601.8
40°	1330.7	849.3	642.2	567.1	557.5
42.5°	1216.1	778.0	592.2	524.8	516.1
45°	1100.6	707.7	542.1	483.4	476.6
47.5°	987.9	643.2	497.8	445.8	440.0
50°	879.1	582.5	455.4	409.2	405.4
52.5°	777.0	525.7	414.0	375.5	373.6
55°	681.7	472.8	377.5	342.8	341.8
57.5°	594.1	422.7	340.9	311.0	311.0
60°	513.2	375.5	306.2	280.2	282.1
62.5°	441.0	330.3	273.5	251.3	253.2
65°	373.6	287.9	240.7	222.4	224.4
67.5°	312.9	247.5	208.9	193.5	195.5
70°	259.0	208.9	178.1	164.7	167.5
72.5°	208.9	173.3	147.3	136.7	139.6
75°	163.7	137.7	117.5	109.8	112.7
77.5°	123.2	105.0	90.5	83.8	86.7
80°	86.7	75.1	64.5	59.7	62.6
82.5°	53.9	48.1	42.4	38.5	40.4
85°	27.9	26.0	22.1	20.2	22.1
87.5°	9.6	9.6	8.7	7.7	8.7
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	18.25	19.74	18.62	20.05	20.37	15.64	17.13	16.00	17.44	17.75
	3H	19.84	21.17	20.22	21.50	21.86	17.28	18.62	17.66	18.94	19.31
	4H	20.37	21.62	20.77	21.97	22.35	17.86	19.11	18.26	19.46	19.84
	6H	20.71	21.86	21.12	22.23	22.62	18.23	19.39	18.65	19.75	20.15
	8H	20.79	21.89	21.22	22.28	22.68	18.33	19.43	18.76	19.82	20.22
	12H	20.82	21.87	21.25	22.25	22.68	18.37	19.42	18.81	19.81	20.24
4H	2H	18.50	19.74	18.90	20.09	20.47	16.33	17.58	16.73	17.92	18.30
	3H	20.28	21.31	20.69	21.71	22.12	18.15	19.18	18.56	19.58	19.98
	4H	20.92	21.86	21.36	22.27	22.71	18.81	19.74	19.24	20.16	20.60
	6H	21.38	22.19	21.84	22.63	23.09	19.28	20.09	19.73	20.53	20.99
	8H	21.49	22.25	21.96	22.69	23.16	19.40	20.16	19.86	20.60	21.07
	12H	21.55	22.23	22.04	22.71	23.18	19.47	20.14	19.95	20.62	21.09
8H	4H	21.03	21.79	21.50	22.23	22.70	19.11	19.86	19.57	20.31	20.78
	6H	21.56	22.18	22.06	22.68	23.15	19.66	20.28	20.16	20.77	21.25
	8H	21.72	22.28	22.24	22.79	23.28	19.83	20.38	20.34	20.90	21.38
	12H	21.83	22.32	22.34	22.81	23.38	19.94	20.43	20.45	20.92	21.49
12H	4H	21.02	21.70	21.51	22.18	22.65	19.13	19.81	19.61	20.29	20.76
	6H	21.56	22.11	22.07	22.62	23.11	19.70	20.26	20.21	20.77	21.26
	8H	21.76	22.25	22.27	22.74	23.31	19.91	20.40	20.42	20.89	21.46