

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: P1217463

Luminaire Tested: S125DRP-H675D830-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217463  
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-H675D830-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

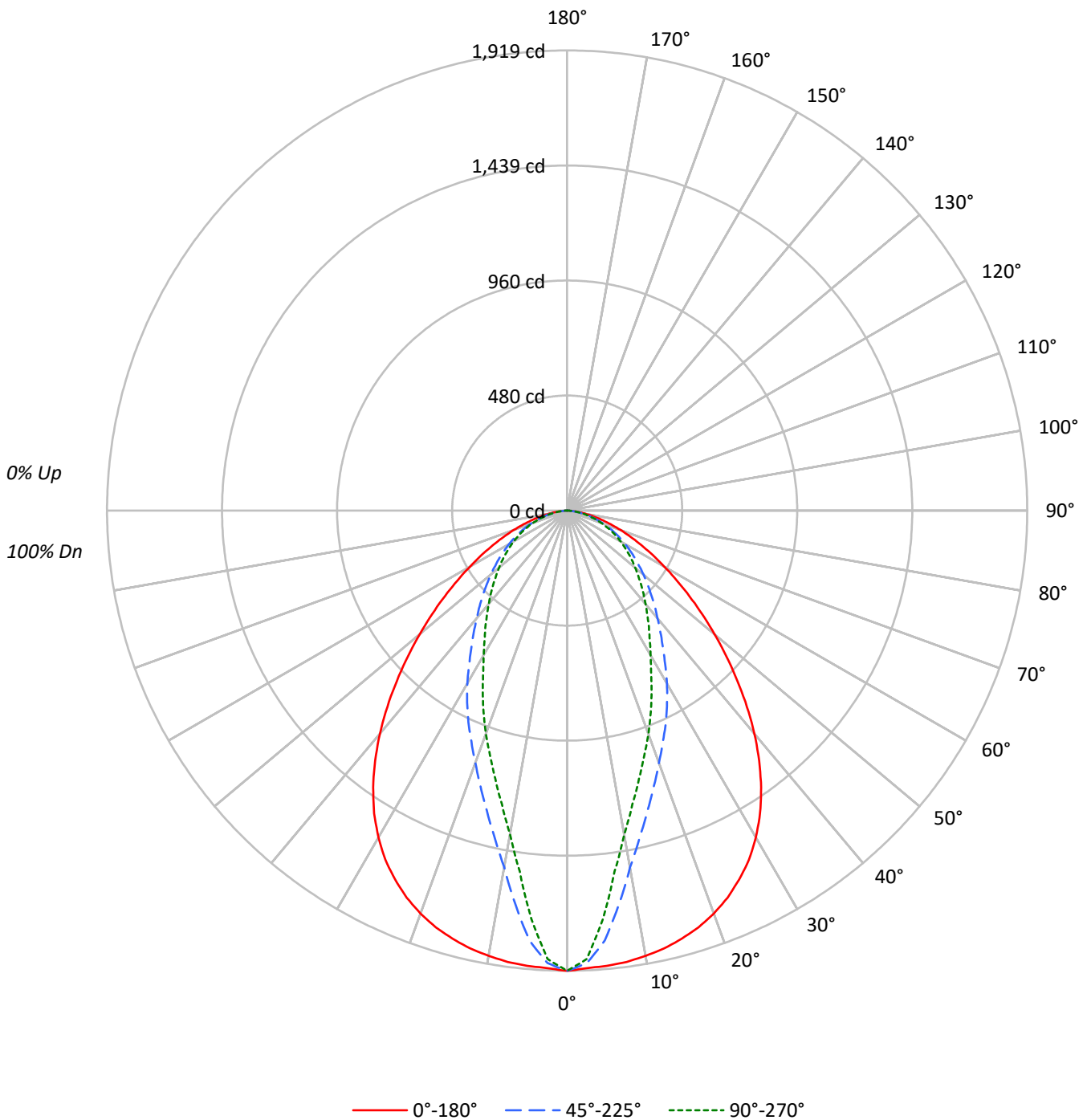
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2733.9 lumens  
Efficiency: N/A  
Efficacy: 114.9 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

TEST NUMBER: P1217463

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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°	13569	13569	13569
5°	13521	12773	12130
10°	13532	10845	9842
15°	13526	9481	8477
20°	13455	8417	7452
25°	13244	7596	6492
30°	12849	6794	5675
35°	12174	6000	5127
40°	11209	5410	4696
45°	10043	4947	4349
50°	8825	4572	4069
55°	7669	4246	3845
60°	6623	3952	3641
65°	5704	3675	3426
70°	4886	3361	3160
75°	4081	2928	2808
80°	3220	2398	2325
85°	2068	1638	1638

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10043 cd/sqm



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CATALOG NUMBER: S125DRP-H675D830-X4F0-XX-UDD-G-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.7	6.0
10°-20°	389.1	14.2
20°-30°	494.3	18.1
30°-40°	503.4	18.4
40°-50°	445.3	16.3
50°-60°	349.0	12.8
60°-70°	238.0	8.7
70°-80°	122.6	4.5
80°-90°	27.4	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°	1048.1	38.3
0°-40°	1551.6	56.8
0°-60°	2345.9	85.8
0°-90°	2733.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2733.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1919	1919	1919	1919	1919	
5°	1905	1896	1800	1730	1709	181
15°	1848	1564	1295	1180	1158	521
25°	1698	1206	974	858	832	780
35°	1411	912	695	607	594	878
45°	1004	646	495	441	435	775
55°	622	432	344	313	312	560
65°	341	263	220	203	205	341
75°	149	126	107	100	103	161
85°	26	24	20	18	20	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1919.4	1919.4	1919.4	1919.4	1919.4
2.5°	1909.8	1924.7	1888.7	1879.0	1872.0
5°	1905.4	1895.7	1799.9	1729.6	1709.4
7.5°	1898.3	1844.7	1655.8	1536.2	1517.8
10°	1885.1	1764.7	1510.8	1393.9	1371.0
12.5°	1870.2	1668.9	1396.5	1277.9	1255.9
15°	1848.2	1563.5	1295.4	1180.3	1158.3
17.5°	1821.9	1463.3	1204.0	1090.7	1069.6
20°	1788.5	1371.9	1118.8	1011.6	990.5
22.5°	1747.2	1285.8	1043.2	933.3	910.5
25°	1697.9	1205.8	973.8	857.8	832.3
27.5°	1641.7	1129.3	902.6	782.2	757.6
30°	1574.0	1054.6	832.3	715.4	695.2
32.5°	1497.6	982.6	760.2	657.4	640.7
35°	1410.6	912.3	695.2	607.3	594.1
37.5°	1315.6	842.8	638.9	560.7	549.3
40°	1214.6	775.1	586.2	517.6	508.9
42.5°	1110.0	710.1	540.5	479.0	471.1
45°	1004.5	646.0	494.8	441.2	435.0
47.5°	901.7	587.1	454.4	406.9	401.6
50°	802.4	531.7	415.7	373.5	370.0
52.5°	709.2	479.9	377.9	342.8	341.0
55°	622.2	431.5	344.5	312.9	312.0
57.5°	542.3	385.8	311.1	283.9	283.9
60°	468.4	342.8	279.5	255.7	257.5
62.5°	402.5	301.4	249.6	229.4	231.1
65°	341.0	262.8	219.7	203.0	204.8
67.5°	285.6	225.9	190.7	176.6	178.4
70°	236.4	190.7	162.6	150.3	152.9
72.5°	190.7	158.2	134.5	124.8	127.4
75°	149.4	125.7	107.2	100.2	102.8
77.5°	112.5	95.8	82.6	76.5	79.1
80°	79.1	68.6	58.9	54.5	57.1
82.5°	49.2	43.9	38.7	35.2	36.9
85°	25.5	23.7	20.2	18.5	20.2
87.5°	8.8	8.8	7.9	7.0	7.9
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	17.94	19.42	18.30	19.74	20.05	15.32	16.81	15.69	17.12	17.44
	3H	19.52	20.86	19.90	21.18	21.55	16.97	18.30	17.34	18.63	18.99
	4H	20.06	21.31	20.46	21.66	22.03	17.54	18.79	17.94	19.14	19.52
	6H	20.39	21.55	20.81	21.91	22.31	17.92	19.07	18.33	19.44	19.83
	8H	20.47	21.57	20.90	21.96	22.36	18.01	19.11	18.44	19.50	19.90
	12H	20.51	21.55	20.94	21.94	22.37	18.06	19.11	18.49	19.49	19.92
4H	2H	18.18	19.43	18.58	19.78	20.16	16.01	17.26	16.41	17.61	17.99
	3H	19.96	21.00	20.37	21.40	21.80	17.83	18.86	18.24	19.26	19.67
	4H	20.61	21.54	21.04	21.96	22.40	18.49	19.42	18.93	19.84	20.28
	6H	21.06	21.87	21.52	22.31	22.77	18.96	19.77	19.42	20.21	20.67
	8H	21.18	21.93	21.64	22.38	22.84	19.08	19.84	19.55	20.28	20.75
	12H	21.24	21.91	21.72	22.39	22.86	19.15	19.83	19.63	20.31	20.78
8H	4H	20.72	21.47	21.18	21.92	22.38	18.79	19.55	19.25	19.99	20.46
	6H	21.24	21.87	21.74	22.36	22.84	19.34	19.96	19.84	20.46	20.93
	8H	21.41	21.96	21.92	22.47	22.96	19.51	20.07	20.02	20.58	21.07
	12H	21.51	22.00	22.02	22.50	23.06	19.62	20.11	20.13	20.61	21.17
12H	4H	20.71	21.38	21.19	21.86	22.33	18.81	19.49	19.30	19.97	20.44
	6H	21.24	21.80	21.75	22.31	22.80	19.38	19.94	19.89	20.45	20.94
	8H	21.44	21.93	21.95	22.42	22.99	19.59	20.08	20.10	20.58	21.14