

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: P1217517

Luminaire Tested: S125DRP-S865D830-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217517  
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-S865D830-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

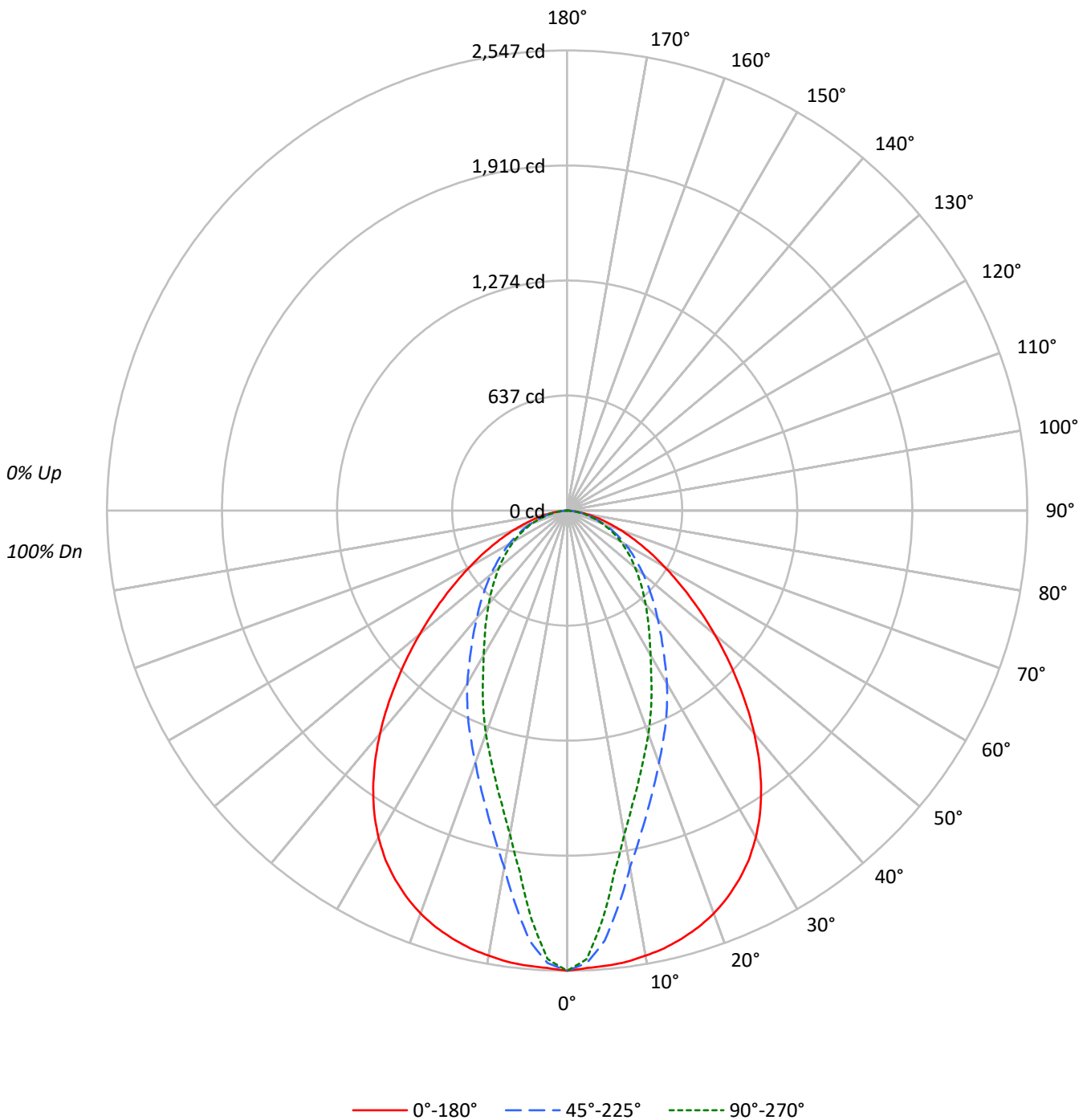
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3628.0 lumens  
Efficiency: N/A  
Efficacy: 104.6 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): 34.7  
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	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°	18006	18006	18006
5°	17943	16950	16097
10°	17958	14391	13060
15°	17951	12582	11250
20°	17855	11169	9888
25°	17575	10079	8615
30°	17051	9016	7530
35°	16155	7961	6804
40°	14874	7179	6232
45°	13328	6564	5772
50°	11711	6066	5400
55°	10177	5635	5103
60°	8789	5244	4831
65°	7569	4878	4545
70°	6484	4460	4194
75°	5416	3887	3728
80°	4275	3180	3086
85°	2742	2174	2174

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13328 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.6	6.0
10°-20°	516.3	14.2
20°-30°	656.0	18.1
30°-40°	668.1	18.4
40°-50°	591.0	16.3
50°-60°	463.1	12.8
60°-70°	315.9	8.7
70°-80°	162.7	4.5
80°-90°	36.4	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°	1390.9	38.3
0°-40°	2059.0	56.8
0°-60°	3113.1	85.8
0°-90°	3628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3628.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2547	2547	2547	2547	2547	
5°	2528	2516	2388	2295	2268	241
15°	2453	2075	1719	1566	1537	692
25°	2253	1600	1292	1138	1104	1035
35°	1872	1211	922	806	788	1165
45°	1333	857	657	586	577	1028
55°	826	573	457	415	414	743
65°	452	349	292	269	272	453
75°	198	167	142	133	136	213
85°	34	32	27	24	27	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2547.1	2547.1	2547.1	2547.1	2547.1
2.5°	2534.3	2554.1	2506.3	2493.5	2484.2
5°	2528.5	2515.7	2388.5	2295.2	2268.4
7.5°	2519.2	2448.0	2197.3	2038.6	2014.2
10°	2501.7	2341.9	2004.8	1849.7	1819.4
12.5°	2481.8	2214.8	1853.2	1695.8	1666.6
15°	2452.7	2074.8	1719.1	1566.3	1537.1
17.5°	2417.7	1941.8	1597.8	1447.3	1419.4
20°	2373.4	1820.6	1484.7	1342.4	1314.4
22.5°	2318.6	1706.3	1384.4	1238.6	1208.3
25°	2253.2	1600.1	1292.2	1138.3	1104.5
27.5°	2178.6	1498.7	1197.8	1038.0	1005.3
30°	2088.8	1399.5	1104.5	949.3	922.5
32.5°	1987.3	1303.9	1008.8	872.4	850.2
35°	1871.9	1210.6	922.5	805.9	788.4
37.5°	1745.9	1118.5	847.9	744.1	728.9
40°	1611.8	1028.7	777.9	686.9	675.3
42.5°	1473.0	942.3	717.3	635.6	625.1
45°	1333.1	857.2	656.6	585.5	577.3
47.5°	1196.6	779.1	603.0	540.0	533.0
50°	1064.8	705.6	551.6	495.7	491.0
52.5°	941.2	636.8	501.5	454.8	452.5
55°	825.7	572.6	457.2	415.2	414.0
57.5°	719.6	512.0	412.9	376.7	376.7
60°	621.6	454.8	370.9	339.4	341.7
62.5°	534.2	400.0	331.2	304.4	306.7
65°	452.5	348.7	291.6	269.4	271.7
67.5°	379.0	299.7	253.1	234.4	236.8
70°	313.7	253.1	215.8	199.4	202.9
72.5°	253.1	209.9	178.4	165.6	169.1
75°	198.3	166.8	142.3	133.0	136.5
77.5°	149.3	127.1	109.6	101.5	105.0
80°	105.0	91.0	78.1	72.3	75.8
82.5°	65.3	58.3	51.3	46.7	49.0
85°	33.8	31.5	26.8	24.5	26.8
87.5°	11.7	11.7	10.5	9.3	10.5
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	18.92	20.41	19.28	20.72	21.03	16.31	17.79	16.67	18.11	18.42
	3H	20.51	21.84	20.88	22.17	22.53	17.95	19.28	18.33	19.61	19.97
	4H	21.04	22.29	21.44	22.64	23.02	18.52	19.77	18.92	20.12	20.50
	6H	21.38	22.53	21.79	22.90	23.29	18.90	20.05	19.31	20.42	20.81
	8H	21.46	22.55	21.88	22.94	23.35	19.00	20.09	19.42	20.48	20.88
	12H	21.49	22.54	21.92	22.92	23.35	19.04	20.09	19.47	20.47	20.90
4H	2H	19.16	20.41	19.56	20.76	21.14	16.99	18.24	17.39	18.59	18.97
	3H	20.94	21.98	21.35	22.38	22.78	18.81	19.85	19.22	20.25	20.65
	4H	21.59	22.52	22.02	22.94	23.38	19.48	20.41	19.91	20.82	21.26
	6H	22.04	22.85	22.50	23.30	23.76	19.94	20.75	20.40	21.19	21.66
	8H	22.16	22.91	22.62	23.36	23.83	20.07	20.82	20.53	21.27	21.73
	12H	22.22	22.89	22.70	23.37	23.84	20.14	20.81	20.62	21.29	21.76
8H	4H	21.70	22.45	22.16	22.90	23.37	19.77	20.53	20.24	20.97	21.44
	6H	22.23	22.85	22.72	23.34	23.82	20.32	20.95	20.82	21.44	21.92
	8H	22.39	22.95	22.90	23.46	23.95	20.49	21.05	21.01	21.56	22.05
	12H	22.49	22.99	23.01	23.48	24.05	20.61	21.10	21.12	21.59	22.16
12H	4H	21.69	22.36	22.17	22.84	23.31	19.80	20.47	20.28	20.95	21.42
	6H	22.22	22.78	22.74	23.29	23.78	20.36	20.92	20.88	21.43	21.92
	8H	22.42	22.91	22.93	23.41	23.97	20.58	21.07	21.09	21.56	22.13