

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: P1217523

Luminaire Tested: S125DRP-S865D935-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217523  
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-S865D935-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

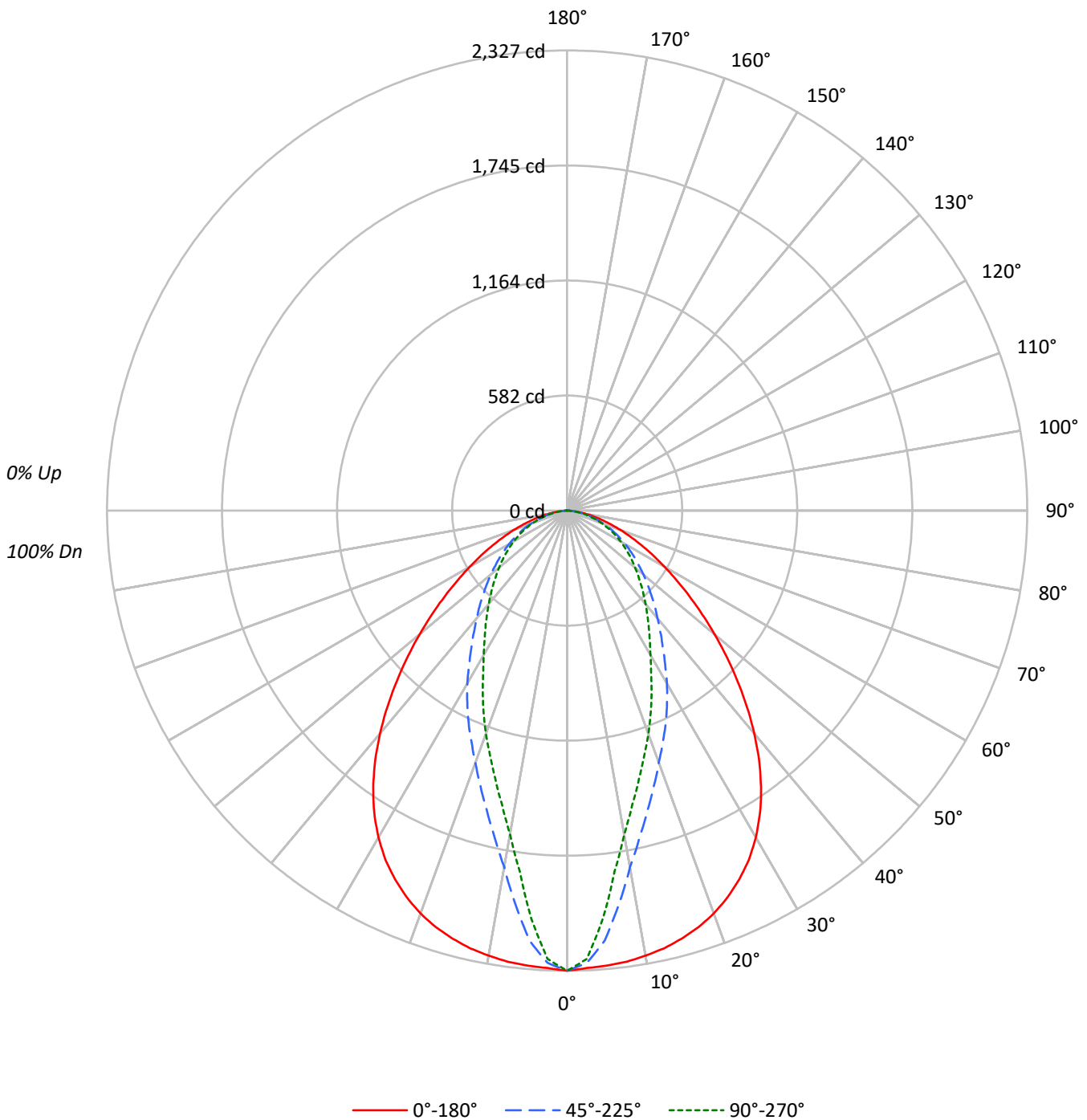
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3314.1 lumens  
Efficiency: N/A  
Efficacy: 95.5 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): 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

TEST NUMBER: P1217523

CATALOG NUMBER: S125DRP-S865D935-X4F0-XX-UDD-G-W

### Luminous Intensity Polar Plot





TEST NUMBER: P1217523

CATALOG NUMBER: S125DRP-S865D935-X4F0-XX-UDD-G-W

**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	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°	16449	16449	16449
5°	16390	15484	14705
10°	16404	13147	11930
15°	16398	11493	10277
20°	16310	10203	9033
25°	16055	9207	7870
30°	15576	8236	6879
35°	14757	7273	6215
40°	13587	6558	5693
45°	12174	5997	5273
50°	10698	5542	4933
55°	9297	5147	4661
60°	8028	4790	4414
65°	6915	4455	4152
70°	5924	4074	3832
75°	4947	3551	3403
80°	3904	2907	2817
85°	2506	1987	1987

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12174 cd/sqm



TEST NUMBER: P1217523

CATALOG NUMBER: S125DRP-S865D935-X4F0-XX-UDD-G-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.7	6.0
10°-20°	471.6	14.2
20°-30°	599.2	18.1
30°-40°	610.3	18.4
40°-50°	539.8	16.3
50°-60°	423.1	12.8
60°-70°	288.5	8.7
70°-80°	148.6	4.5
80°-90°	33.2	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°	1270.5	38.3
0°-40°	1880.8	56.8
0°-60°	2843.7	85.8
0°-90°	3314.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3314.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2327	2327	2327	2327	2327	
5°	2310	2298	2182	2097	2072	220
15°	2240	1895	1570	1431	1404	632
25°	2058	1462	1180	1040	1009	946
35°	1710	1106	843	736	720	1064
45°	1218	783	600	535	527	939
55°	754	523	418	379	378	679
65°	413	318	266	246	248	414
75°	181	152	130	122	125	195
85°	31	29	24	22	24	41
90°	0	0	0	0	0	



TEST NUMBER: P1217523

CATALOG NUMBER: S125DRP-S865D935-X4F0-XX-UDD-G-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2326.8	2326.8	2326.8	2326.8	2326.8
2.5°	2315.1	2333.2	2289.5	2277.8	2269.2
5°	2309.7	2298.0	2181.9	2096.7	2072.2
7.5°	2301.2	2236.2	2007.2	1862.3	1839.9
10°	2285.2	2139.3	1831.4	1689.7	1662.0
12.5°	2267.1	2023.1	1692.9	1549.1	1522.4
15°	2240.5	1895.3	1570.4	1430.8	1404.2
17.5°	2208.5	1773.8	1459.6	1322.1	1296.6
20°	2168.0	1663.0	1356.2	1226.2	1200.7
22.5°	2118.0	1558.6	1264.6	1131.4	1103.7
25°	2058.3	1461.7	1180.4	1039.8	1008.9
27.5°	1990.1	1369.0	1094.1	948.2	918.4
30°	1908.1	1278.4	1008.9	867.2	842.7
32.5°	1815.4	1191.1	921.5	796.9	776.7
35°	1709.9	1105.9	842.7	736.2	720.2
37.5°	1594.9	1021.7	774.5	679.7	665.9
40°	1472.3	939.7	710.6	627.5	616.9
42.5°	1345.6	860.8	655.2	580.6	571.0
45°	1217.7	783.0	599.8	534.8	527.4
47.5°	1093.1	711.7	550.8	493.3	486.9
50°	972.7	644.6	503.9	452.8	448.5
52.5°	859.8	581.7	458.1	415.5	413.4
55°	754.3	523.1	417.6	379.3	378.2
57.5°	657.3	467.7	377.1	344.1	344.1
60°	567.8	415.5	338.8	310.0	312.2
62.5°	487.9	365.4	302.6	278.1	280.2
65°	413.4	318.5	266.3	246.1	248.2
67.5°	346.2	273.8	231.2	214.1	216.3
70°	286.6	231.2	197.1	182.2	185.4
72.5°	231.2	191.8	163.0	151.3	154.5
75°	181.1	152.3	130.0	121.5	124.6
77.5°	136.4	116.1	100.1	92.7	95.9
80°	95.9	83.1	71.4	66.1	69.2
82.5°	59.7	53.3	46.9	42.6	44.7
85°	30.9	28.8	24.5	22.4	24.5
87.5°	10.7	10.7	9.6	8.5	9.6
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1217523  
 CATALOG NUMBER: S125DRP-S865D935-X4F0-XX-UDD-G-W

**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	18.61	20.09	18.97	20.40	20.72	15.99	17.48	16.36	17.79	18.11
	3H	20.19	21.52	20.57	21.85	22.21	17.63	18.97	18.01	19.30	19.66
	4H	20.73	21.97	21.13	22.32	22.70	18.21	19.46	18.61	19.81	20.19
	6H	21.06	22.22	21.48	22.58	22.98	18.58	19.74	19.00	20.10	20.50
	8H	21.14	22.24	21.57	22.63	23.03	18.68	19.78	19.11	20.17	20.57
	12H	21.17	22.22	21.60	22.61	23.04	18.73	19.78	19.16	20.16	20.59
4H	2H	18.85	20.10	19.25	20.44	20.82	16.68	17.93	17.08	18.28	18.65
	3H	20.63	21.67	21.04	22.07	22.47	18.50	19.53	18.91	19.93	20.33
	4H	21.28	22.21	21.71	22.62	23.06	19.16	20.09	19.59	20.51	20.95
	6H	21.73	22.54	22.19	22.98	23.44	19.63	20.44	20.09	20.88	21.34
	8H	21.84	22.60	22.31	23.04	23.51	19.75	20.51	20.21	20.95	21.42
	12H	21.91	22.58	22.39	23.06	23.53	19.82	20.49	20.30	20.97	21.45
8H	4H	21.38	22.14	21.85	22.58	23.05	19.46	20.21	19.92	20.66	21.13
	6H	21.91	22.54	22.41	23.03	23.51	20.01	20.63	20.51	21.12	21.60
	8H	22.07	22.63	22.59	23.14	23.63	20.18	20.74	20.69	21.25	21.74
	12H	22.18	22.67	22.69	23.16	23.73	20.29	20.78	20.80	21.27	21.84
12H	4H	21.37	22.05	21.86	22.53	23.00	19.48	20.16	19.97	20.64	21.11
	6H	21.91	22.47	22.42	22.98	23.47	20.05	20.61	20.56	21.12	21.61
	8H	22.11	22.60	22.62	23.09	23.66	20.26	20.75	20.77	21.25	21.81