

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: P1217476

Luminaire Tested: S125DRP-H865D927-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217476  
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-H865D927-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

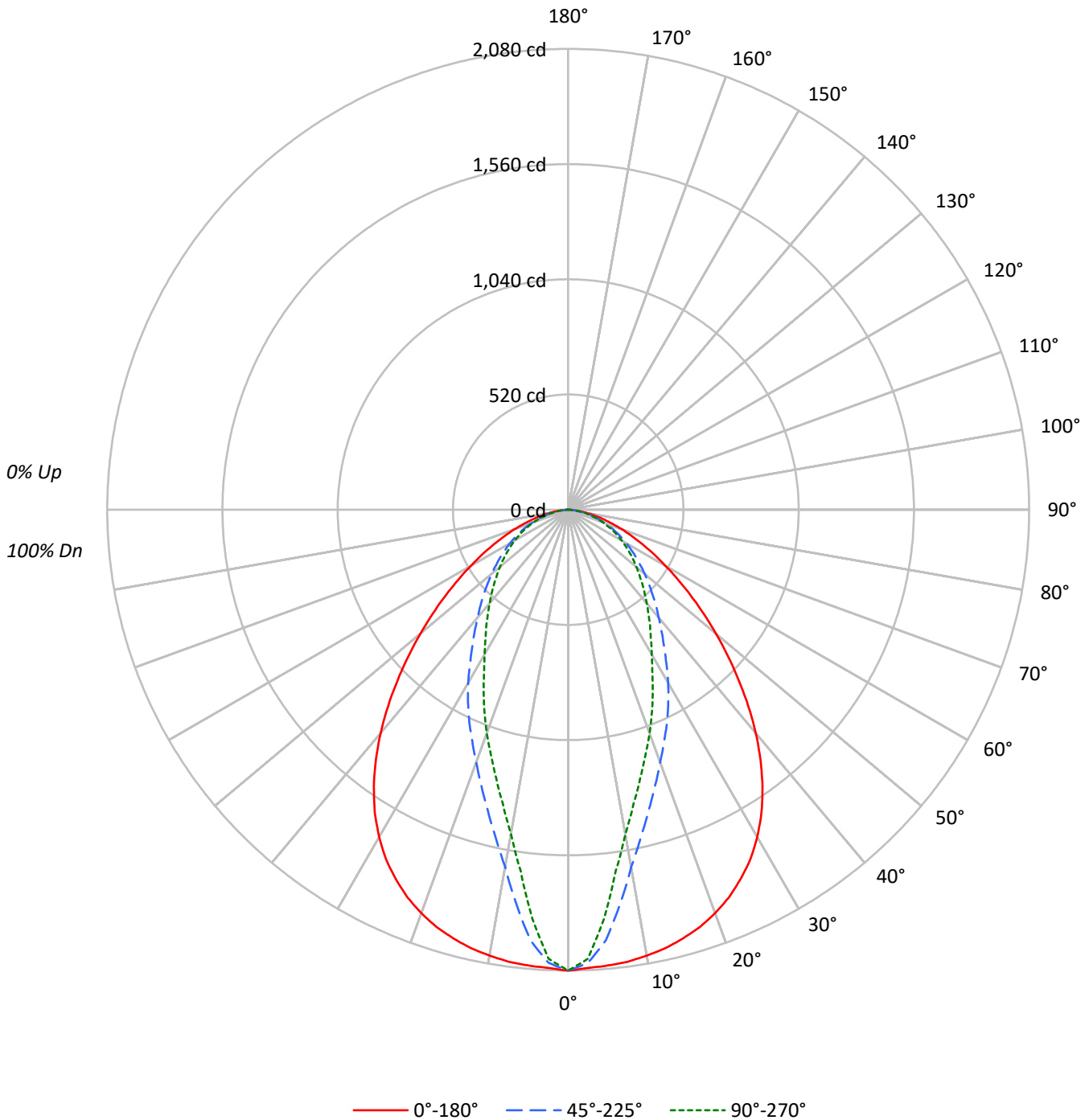
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2963.2 lumens  
Efficiency: N/A  
Efficacy: 95.9 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): 30.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	14708	14708	14708
5°	14655	13844	13148
10°	14668	11755	10667
15°	14662	10276	9189
20°	14583	9123	8077
25°	14355	8233	7037
30°	13927	7364	6151
35°	13195	6503	5558
40°	12149	5864	5090
45°	10885	5362	4714
50°	9565	4956	4410
55°	8312	4602	4168
60°	7178	4283	3946
65°	6182	3983	3713
70°	5295	3642	3427
75°	4422	3174	3045
80°	3489	2597	2520
85°	2239	1776	1776

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10885 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.6	6.0
10°-20°	421.7	14.2
20°-30°	535.8	18.1
30°-40°	545.7	18.4
40°-50°	482.7	16.3
50°-60°	378.3	12.8
60°-70°	258.0	8.7
70°-80°	132.9	4.5
80°-90°	29.7	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°	1136.0	38.3
0°-40°	1681.7	56.8
0°-60°	2542.7	85.8
0°-90°	2963.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2963.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2080	2080	2080	2080	2080	
5°	2065	2055	1951	1875	1853	197
15°	2003	1695	1404	1279	1256	565
25°	1840	1307	1056	930	902	846
35°	1529	989	754	658	644	952
45°	1089	700	536	478	472	840
55°	674	468	373	339	338	607
65°	370	285	238	220	222	370
75°	162	136	116	109	112	174
85°	28	26	22	20	22	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2080.5	2080.5	2080.5	2080.5	2080.5
2.5°	2070.0	2086.2	2047.1	2036.6	2029.0
5°	2065.2	2054.7	1950.9	1874.7	1852.8
7.5°	2057.6	1999.5	1794.7	1665.1	1645.1
10°	2043.3	1912.8	1637.5	1510.8	1486.0
12.5°	2027.1	1809.0	1513.7	1385.1	1361.3
15°	2003.3	1694.7	1404.1	1279.3	1255.5
17.5°	1974.7	1586.1	1305.1	1182.2	1159.3
20°	1938.5	1487.0	1212.7	1096.4	1073.6
22.5°	1893.8	1393.6	1130.7	1011.7	986.9
25°	1840.4	1307.0	1055.5	929.7	902.1
27.5°	1779.4	1224.1	978.3	847.8	821.1
30°	1706.1	1143.1	902.1	775.4	753.5
32.5°	1623.2	1065.0	824.0	712.5	694.4
35°	1528.9	988.8	753.5	658.2	644.0
37.5°	1426.0	913.5	692.5	607.8	595.4
40°	1316.5	840.2	635.4	561.1	551.6
42.5°	1203.1	769.7	585.8	519.2	510.6
45°	1088.8	700.2	536.3	478.2	471.5
47.5°	977.4	636.3	492.5	441.1	435.3
50°	869.7	576.3	450.6	404.9	401.0
52.5°	768.7	520.1	409.6	371.5	369.6
55°	674.4	467.7	373.4	339.1	338.2
57.5°	587.8	418.2	337.2	307.7	307.7
60°	507.7	371.5	302.9	277.2	279.1
62.5°	436.3	326.7	270.5	248.6	250.5
65°	369.6	284.8	238.1	220.0	222.0
67.5°	309.6	244.8	206.7	191.5	193.4
70°	256.2	206.7	176.2	162.9	165.8
72.5°	206.7	171.5	145.7	135.3	138.1
75°	161.9	136.2	116.2	108.6	111.5
77.5°	121.9	103.8	89.5	82.9	85.7
80°	85.7	74.3	63.8	59.1	61.9
82.5°	53.3	47.6	41.9	38.1	40.0
85°	27.6	25.7	21.9	20.0	21.9
87.5°	9.5	9.5	8.6	7.6	8.6
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	18.22	19.70	18.58	20.02	20.33	15.60	17.09	15.97	17.40	17.72
	3H	19.80	21.14	20.18	21.46	21.83	17.25	18.58	17.62	18.91	19.27
	4H	20.34	21.59	20.74	21.94	22.31	17.82	19.07	18.22	19.42	19.80
	6H	20.67	21.83	21.09	22.19	22.59	18.20	19.35	18.61	19.72	20.11
	8H	20.75	21.85	21.18	22.24	22.64	18.29	19.39	18.72	19.78	20.18
	12H	20.78	21.83	21.22	22.22	22.65	18.34	19.39	18.77	19.77	20.20
4H	2H	18.46	19.71	18.86	20.06	20.44	16.29	17.54	16.69	17.89	18.27
	3H	20.24	21.28	20.65	21.68	22.08	18.11	19.14	18.52	19.54	19.95
	4H	20.89	21.82	21.32	22.24	22.67	18.77	19.70	19.21	20.12	20.56
	6H	21.34	22.15	21.80	22.59	23.05	19.24	20.05	19.70	20.49	20.95
	8H	21.45	22.21	21.92	22.66	23.12	19.36	20.12	19.83	20.56	21.03
	12H	21.52	22.19	22.00	22.67	23.14	19.43	20.11	19.91	20.59	21.06
8H	4H	21.00	21.75	21.46	22.20	22.66	19.07	19.83	19.53	20.27	20.74
	6H	21.52	22.15	22.02	22.64	23.12	19.62	20.24	20.12	20.74	21.21
	8H	21.68	22.24	22.20	22.75	23.24	19.79	20.35	20.30	20.86	21.35
	12H	21.79	22.28	22.30	22.78	23.34	19.90	20.39	20.41	20.89	21.45
12H	4H	20.99	21.66	21.47	22.14	22.61	19.09	19.77	19.58	20.25	20.72
	6H	21.52	22.08	22.03	22.59	23.08	19.66	20.22	20.17	20.73	21.22
	8H	21.72	22.21	22.23	22.70	23.27	19.87	20.36	20.38	20.86	21.42