

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: P1217474

Luminaire Tested: S125DRP-H865D840-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217474  
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-H865D840-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

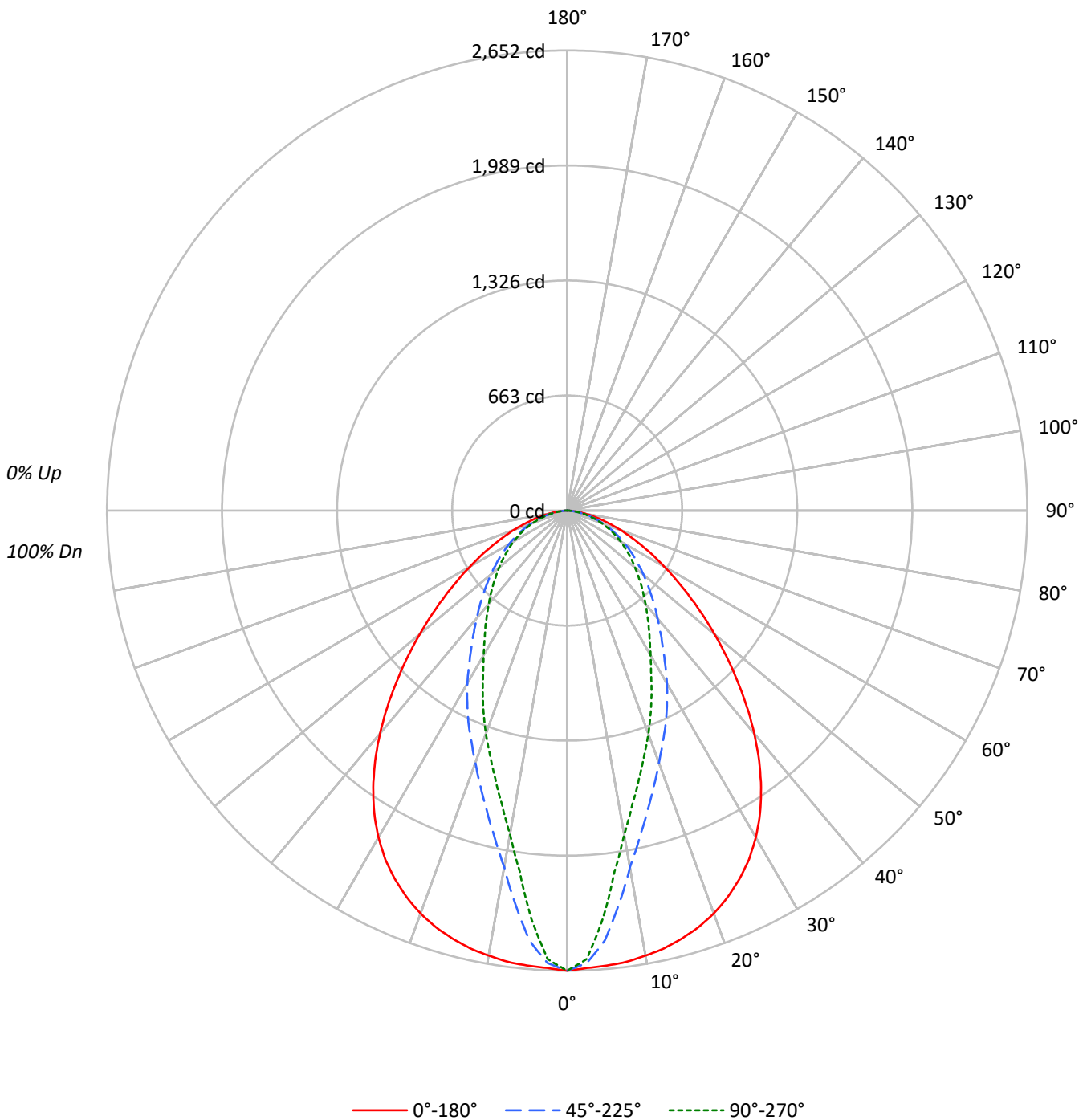
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3777.5 lumens  
Efficiency: N/A  
Efficacy: 122.3 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 (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	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°	18749	18749	18749
5°	18683	17649	16761
10°	18698	14985	13599
15°	18691	13101	11714
20°	18591	11630	10296
25°	18300	10495	8970
30°	17754	9387	7841
35°	16820	8290	7084
40°	15487	7475	6488
45°	13877	6835	6010
50°	12193	6317	5622
55°	10597	5867	5313
60°	9152	5460	5031
65°	7882	5078	4732
70°	6753	4644	4367
75°	5638	4048	3881
80°	4450	3314	3212
85°	2855	2263	2263

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13877 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.6	6.0
10°-20°	537.6	14.2
20°-30°	683.0	18.1
30°-40°	695.6	18.4
40°-50°	615.3	16.3
50°-60°	482.2	12.8
60°-70°	328.9	8.7
70°-80°	169.4	4.5
80°-90°	37.9	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°	1448.2	38.3
0°-40°	2143.9	56.8
0°-60°	3241.4	85.8
0°-90°	3777.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3777.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2652	2652	2652	2652	2652	
5°	2633	2619	2487	2390	2362	251
15°	2554	2160	1790	1631	1600	720
25°	2346	1666	1346	1185	1150	1078
35°	1949	1260	961	839	821	1213
45°	1388	893	684	610	601	1071
55°	860	596	476	432	431	774
65°	471	363	304	280	283	472
75°	206	174	148	138	142	222
85°	35	33	28	26	28	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2652.2	2652.2	2652.2	2652.2	2652.2
2.5°	2638.8	2659.4	2609.7	2596.3	2586.6
5°	2632.7	2619.4	2487.0	2389.9	2361.9
7.5°	2623.0	2548.9	2287.9	2122.7	2097.2
10°	2604.8	2438.4	2087.5	1926.0	1894.4
12.5°	2584.2	2306.1	1929.6	1765.7	1735.3
15°	2553.8	2160.3	1790.0	1630.9	1600.5
17.5°	2517.4	2021.9	1663.7	1507.0	1477.9
20°	2471.2	1895.6	1545.9	1397.7	1368.6
22.5°	2414.1	1776.6	1441.4	1289.6	1258.1
25°	2346.1	1666.1	1345.5	1185.2	1150.0
27.5°	2268.4	1560.5	1247.1	1080.8	1046.8
30°	2174.9	1457.2	1150.0	988.5	960.6
32.5°	2069.3	1357.7	1050.4	908.3	885.3
35°	1949.0	1260.5	960.6	839.1	820.9
37.5°	1817.9	1164.6	882.8	774.8	759.0
40°	1678.2	1071.1	810.0	715.3	703.1
42.5°	1533.7	981.2	746.8	661.8	650.9
45°	1388.0	892.6	683.7	609.6	601.1
47.5°	1245.9	811.2	627.8	562.2	555.0
50°	1108.7	734.7	574.4	516.1	511.2
52.5°	980.0	663.0	522.2	473.6	471.2
55°	859.8	596.2	476.0	432.3	431.1
57.5°	749.3	533.1	429.9	392.2	392.2
60°	647.3	473.6	386.2	353.4	355.8
62.5°	556.2	416.5	344.9	316.9	319.4
65°	471.2	363.1	303.6	280.5	282.9
67.5°	394.7	312.1	263.5	244.1	246.5
70°	326.7	263.5	224.7	207.7	211.3
72.5°	263.5	218.6	185.8	172.4	176.1
75°	206.4	173.7	148.2	138.4	142.1
77.5°	155.4	132.4	114.1	105.6	109.3
80°	109.3	94.7	81.4	75.3	78.9
82.5°	68.0	60.7	53.4	48.6	51.0
85°	35.2	32.8	27.9	25.5	27.9
87.5°	12.1	12.1	10.9	9.7	10.9
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	19.06	20.55	19.43	20.86	21.17	16.45	17.93	16.81	18.25	18.56
	3H	20.65	21.98	21.03	22.31	22.67	18.09	19.42	18.47	19.75	20.11
	4H	21.18	22.43	21.58	22.78	23.16	18.66	19.91	19.06	20.26	20.64
	6H	21.52	22.67	21.93	23.04	23.43	19.04	20.19	19.45	20.56	20.95
	8H	21.60	22.69	22.02	23.08	23.49	19.13	20.23	19.56	20.62	21.02
	12H	21.63	22.68	22.06	23.06	23.49	19.18	20.23	19.61	20.61	21.04
4H	2H	19.30	20.55	19.70	20.90	21.28	17.13	18.38	17.53	18.73	19.11
	3H	21.08	22.12	21.50	22.52	22.92	18.95	19.99	19.36	20.39	20.79
	4H	21.73	22.66	22.16	23.08	23.52	19.62	20.55	20.05	20.96	21.40
	6H	22.18	22.99	22.64	23.44	23.90	20.08	20.89	20.54	21.33	21.80
	8H	22.30	23.06	22.76	23.50	23.97	20.20	20.96	20.67	21.41	21.87
	12H	22.36	23.03	22.84	23.51	23.98	20.28	20.95	20.76	21.43	21.90
8H	4H	21.84	22.60	22.30	23.04	23.51	19.91	20.67	20.38	21.11	21.58
	6H	22.37	22.99	22.87	23.48	23.96	20.46	21.09	20.96	21.58	22.06
	8H	22.53	23.09	23.04	23.60	24.09	20.63	21.19	21.15	21.70	22.19
	12H	22.63	23.13	23.15	23.62	24.19	20.74	21.24	21.26	21.73	22.30
12H	4H	21.83	22.50	22.31	22.98	23.45	19.94	20.61	20.42	21.09	21.56
	6H	22.36	22.92	22.88	23.43	23.92	20.50	21.06	21.02	21.57	22.06
	8H	22.56	23.05	23.07	23.55	24.11	20.72	21.21	21.23	21.70	22.27