

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: P1217438

Luminaire Tested: S125DRP-H1005D840-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217438  
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-H1005D840-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: -

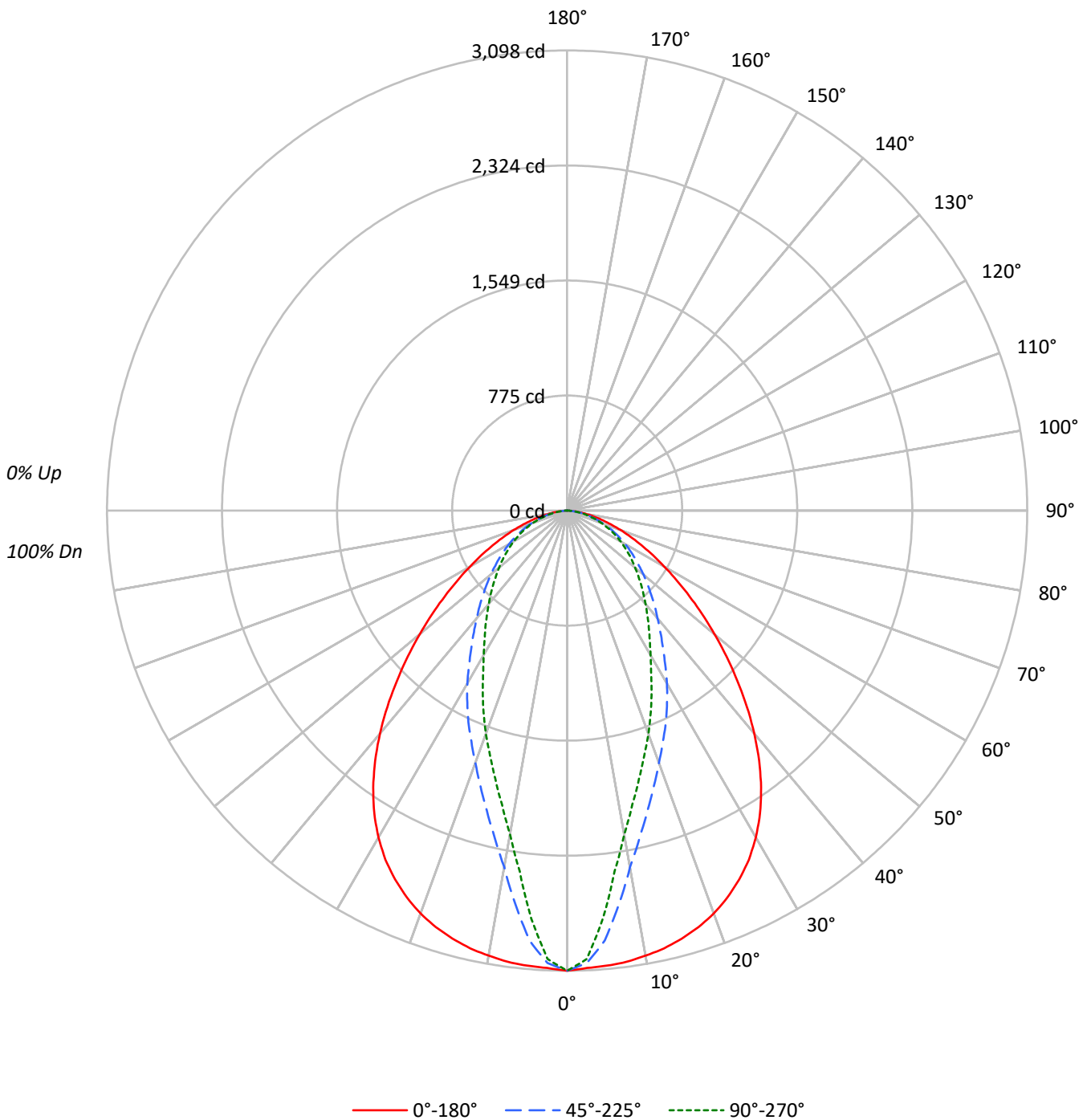
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4412.8 lumens  
Efficiency: N/A  
Efficacy: 120.6 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): 36.6  
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	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				87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75				75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65				65
4	87	76	68	62	85	75	67	62	72	66	61	70	64	60	68	63	59	57				57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51				51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46				46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41				41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37				37
9	62	49	42	37	60	49	41	36	48	41	36	47	40	36	46	40	36	34				34
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32				32

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	21902	21902	21902
5°	21825	20617	19580
10°	21843	17505	15886
15°	21834	15303	13684
20°	21717	13586	12028
25°	21378	12260	10479
30°	20740	10966	9160
35°	19649	9684	8276
40°	18092	8732	7580
45°	16211	7985	7020
50°	14245	7380	6568
55°	12379	6854	6207
60°	10690	6378	5876
65°	9207	5932	5528
70°	7887	5424	5101
75°	6588	4728	4534
80°	5199	3868	3754
85°	3334	2644	2644

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16211 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.9	6.0
10°-20°	628.0	14.2
20°-30°	797.9	18.1
30°-40°	812.6	18.4
40°-50°	718.8	16.3
50°-60°	563.3	12.8
60°-70°	384.2	8.7
70°-80°	197.9	4.5
80°-90°	44.2	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°	1691.8	38.3
0°-40°	2504.4	56.8
0°-60°	3786.6	85.8
0°-90°	4412.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4412.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3098	3098	3098	3098	3098	
5°	3076	3060	2905	2792	2759	293
15°	2983	2524	2091	1905	1870	842
25°	2741	1946	1572	1384	1343	1259
35°	2277	1472	1122	980	959	1417
45°	1622	1043	799	712	702	1251
55°	1004	696	556	505	504	904
65°	550	424	355	328	330	551
75°	241	203	173	162	166	260
85°	41	38	33	30	33	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3098.2	3098.2	3098.2	3098.2	3098.2
2.5°	3082.6	3106.7	3048.6	3033.0	3021.6
5°	3075.5	3059.9	2905.3	2791.8	2759.2
7.5°	3064.2	2977.6	2672.6	2479.7	2449.9
10°	3042.9	2848.5	2438.6	2249.9	2213.0
12.5°	3018.8	2693.9	2254.1	2062.6	2027.2
15°	2983.3	2523.7	2091.0	1905.2	1869.7
17.5°	2940.7	2362.0	1943.5	1760.5	1726.4
20°	2886.8	2214.4	1805.9	1632.8	1598.8
22.5°	2820.2	2075.4	1683.9	1506.5	1469.7
25°	2740.7	1946.3	1571.8	1384.5	1343.4
27.5°	2649.9	1822.9	1456.9	1262.5	1222.8
30°	2540.7	1702.3	1343.4	1154.7	1122.1
32.5°	2417.3	1586.0	1227.1	1061.1	1034.2
35°	2276.8	1472.5	1122.1	980.2	959.0
37.5°	2123.6	1360.4	1031.3	905.1	886.6
40°	1960.5	1251.2	946.2	835.6	821.4
42.5°	1791.7	1146.2	872.4	773.1	760.4
45°	1621.5	1042.7	798.7	712.1	702.2
47.5°	1455.5	947.6	733.4	656.8	648.3
50°	1295.2	858.3	671.0	602.9	597.2
52.5°	1144.8	774.6	610.0	553.3	550.4
55°	1004.4	696.5	556.1	505.0	503.6
57.5°	875.3	622.8	502.2	458.2	458.2
60°	756.1	553.3	451.1	412.8	415.6
62.5°	649.7	486.6	402.9	370.3	373.1
65°	550.4	424.2	354.6	327.7	330.5
67.5°	461.0	364.6	307.8	285.1	288.0
70°	381.6	307.8	262.4	242.6	246.8
72.5°	307.8	255.3	217.0	201.4	205.7
75°	241.2	202.9	173.1	161.7	166.0
77.5°	181.6	154.6	133.3	123.4	127.7
80°	127.7	110.7	95.0	88.0	92.2
82.5°	79.4	70.9	62.4	56.7	59.6
85°	41.1	38.3	32.6	29.8	32.6
87.5°	14.2	14.2	12.8	11.3	12.8
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	19.60	21.09	19.97	21.40	21.71	16.99	18.47	17.35	18.79	19.10
	3H	21.19	22.52	21.57	22.85	23.21	18.63	19.96	19.01	20.29	20.65
	4H	21.72	22.97	22.12	23.32	23.70	19.20	20.45	19.60	20.80	21.18
	6H	22.06	23.21	22.47	23.58	23.97	19.58	20.73	19.99	21.10	21.49
	8H	22.14	23.23	22.56	23.62	24.03	19.68	20.77	20.10	21.16	21.56
	12H	22.17	23.22	22.60	23.60	24.03	19.72	20.77	20.15	21.15	21.58
4H	2H	19.84	21.09	20.24	21.44	21.82	17.67	18.92	18.07	19.27	19.65
	3H	21.62	22.66	22.04	23.06	23.46	19.49	20.53	19.90	20.93	21.33
	4H	22.27	23.20	22.70	23.62	24.06	20.16	21.09	20.59	21.50	21.94
	6H	22.72	23.53	23.18	23.98	24.44	20.62	21.43	21.08	21.87	22.34
	8H	22.84	23.60	23.30	24.04	24.51	20.75	21.50	21.21	21.95	22.41
	12H	22.90	23.57	23.38	24.05	24.52	20.82	21.49	21.30	21.97	22.44
8H	4H	22.38	23.14	22.84	23.58	24.05	20.45	21.21	20.92	21.65	22.12
	6H	22.91	23.53	23.41	24.02	24.50	21.00	21.63	21.50	22.12	22.60
	8H	23.07	23.63	23.58	24.14	24.63	21.17	21.73	21.69	22.24	22.73
	12H	23.17	23.67	23.69	24.16	24.73	21.28	21.78	21.80	22.27	22.84
12H	4H	22.37	23.04	22.85	23.52	23.99	20.48	21.15	20.96	21.63	22.10
	6H	22.90	23.46	23.42	23.97	24.46	21.04	21.60	21.56	22.11	22.60
	8H	23.10	23.59	23.61	24.09	24.65	21.26	21.75	21.77	22.24	22.81