

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: P1217483

Luminaire Tested: S125DRP-S1005D840-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217483
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-S1005D840-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

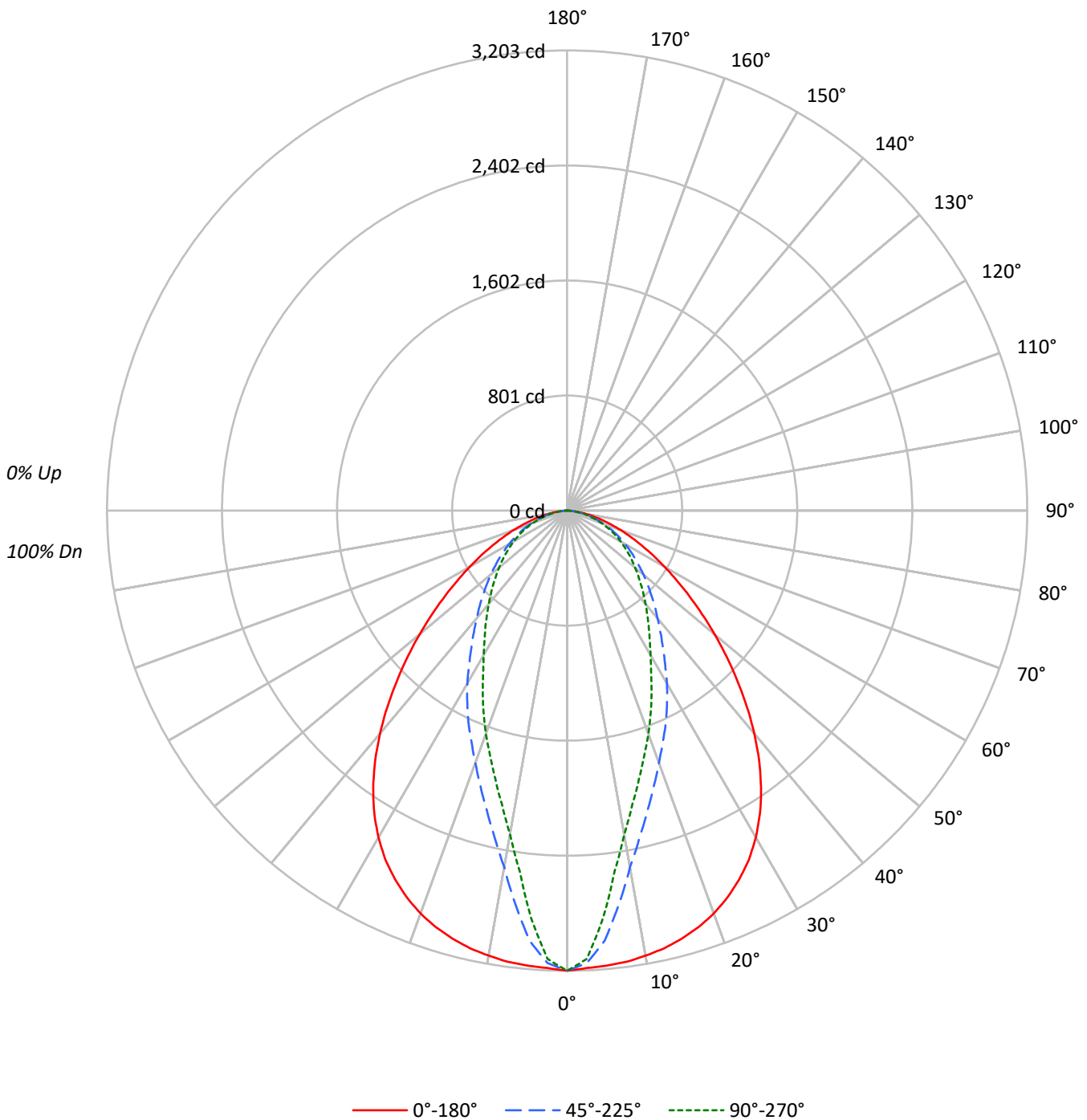
Lumens per Lamp: N/A
Luminaire Lumens: 4561.9 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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	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°	22642	22642	22642
5°	22562	21313	20242
10°	22581	18096	16422
15°	22572	15820	14146
20°	22451	14045	12434
25°	22100	12674	10833
30°	21440	11337	9469
35°	20313	10011	8556
40°	18703	9027	7836
45°	16758	8254	7257
50°	14725	7629	6790
55°	12797	7086	6416
60°	11051	6593	6075
65°	9518	6132	5716
70°	8154	5608	5275
75°	6809	4886	4687
80°	5374	4002	3880
85°	3447	2733	2733

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16758 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.9	6.0
10°-20°	649.2	14.2
20°-30°	824.8	18.1
30°-40°	840.1	18.4
40°-50°	743.1	16.3
50°-60°	582.4	12.8
60°-70°	397.2	8.7
70°-80°	204.5	4.5
80°-90°	45.7	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°	1748.9	38.3
0°-40°	2589.0	56.8
0°-60°	3914.4	85.8
0°-90°	4561.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4561.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3203	3203	3203	3203	3203	
5°	3179	3163	3003	2886	2852	303
15°	3084	2609	2162	1970	1933	870
25°	2833	2012	1625	1431	1389	1302
35°	2354	1522	1160	1013	991	1465
45°	1676	1078	826	736	726	1293
55°	1038	720	575	522	521	934
65°	569	438	367	339	342	570
75°	249	210	179	167	172	268
85°	42	40	34	31	34	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3202.8	3202.8	3202.8	3202.8	3202.8
2.5°	3186.7	3211.6	3151.5	3135.4	3123.7
5°	3179.4	3163.3	3003.4	2886.1	2852.4
7.5°	3167.7	3078.2	2762.9	2563.5	2532.7
10°	3145.7	2944.7	2520.9	2325.9	2287.7
12.5°	3120.7	2784.9	2330.3	2132.3	2095.6
15°	3084.1	2608.9	2161.6	1969.5	1932.9
17.5°	3040.1	2441.7	2009.1	1819.9	1784.7
20°	2984.3	2289.2	1866.9	1687.9	1652.8
22.5°	2915.4	2145.5	1740.7	1557.4	1519.3
25°	2833.3	2012.0	1624.9	1431.3	1388.8
27.5°	2739.4	1884.5	1506.1	1305.2	1264.1
30°	2626.5	1759.8	1388.8	1193.7	1160.0
32.5°	2498.9	1639.6	1268.5	1096.9	1069.1
35°	2353.7	1522.2	1160.0	1013.4	991.4
37.5°	2195.4	1406.4	1066.1	935.6	916.6
40°	2026.7	1293.5	978.2	863.8	849.1
42.5°	1852.2	1184.9	901.9	799.2	786.0
45°	1676.2	1077.9	825.6	736.2	725.9
47.5°	1504.6	979.6	758.2	679.0	670.2
50°	1338.9	887.2	693.7	623.3	617.4
52.5°	1183.5	800.7	630.6	571.9	569.0
55°	1038.3	720.1	574.9	522.1	520.6
57.5°	904.8	643.8	519.1	473.7	473.7
60°	781.6	571.9	466.3	426.8	429.7
62.5°	671.7	503.0	416.5	382.8	385.7
65°	569.0	438.5	366.6	338.8	341.7
67.5°	476.6	376.9	318.2	294.8	297.7
70°	394.5	318.2	271.3	250.8	255.2
72.5°	318.2	264.0	224.4	208.2	212.6
75°	249.3	209.7	178.9	167.2	171.6
77.5°	187.7	159.8	137.9	127.6	132.0
80°	132.0	114.4	98.3	90.9	95.3
82.5°	82.1	73.3	64.5	58.7	61.6
85°	42.5	39.6	33.7	30.8	33.7
87.5°	14.7	14.7	13.2	11.7	13.2
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	19.72	21.20	20.08	21.51	21.83	17.10	18.59	17.47	18.90	19.22
	3H	21.30	22.63	21.68	22.96	23.33	18.75	20.08	19.12	20.41	20.77
	4H	21.84	23.09	22.24	23.43	23.81	19.32	20.57	19.72	20.92	21.30
	6H	22.17	23.33	22.59	23.69	24.09	19.69	20.85	20.11	21.21	21.61
	8H	22.25	23.35	22.68	23.74	24.14	19.79	20.89	20.22	21.28	21.68
	12H	22.28	23.33	22.71	23.72	24.15	19.84	20.89	20.27	21.27	21.70
4H	2H	19.96	21.21	20.36	21.55	21.93	17.79	19.04	18.19	19.39	19.77
	3H	21.74	22.78	22.15	23.18	23.58	19.61	20.64	20.02	21.04	21.45
	4H	22.39	23.32	22.82	23.73	24.17	20.27	21.20	20.70	21.62	22.06
	6H	22.84	23.65	23.30	24.09	24.55	20.74	21.55	21.20	21.99	22.45
	8H	22.95	23.71	23.42	24.15	24.62	20.86	21.62	21.33	22.06	22.53
	12H	23.02	23.69	23.50	24.17	24.64	20.93	21.61	21.41	22.08	22.56
8H	4H	22.49	23.25	22.96	23.69	24.16	20.57	21.33	21.03	21.77	22.24
	6H	23.02	23.65	23.52	24.14	24.62	21.12	21.74	21.62	22.23	22.71
	8H	23.18	23.74	23.70	24.25	24.74	21.29	21.85	21.80	22.36	22.85
	12H	23.29	23.78	23.80	24.27	24.84	21.40	21.89	21.91	22.39	22.95
12H	4H	22.49	23.16	22.97	23.64	24.11	20.59	21.27	21.08	21.75	22.22
	6H	23.02	23.58	23.53	24.09	24.58	21.16	21.72	21.67	22.23	22.72
	8H	23.22	23.71	23.73	24.20	24.77	21.37	21.86	21.88	22.36	22.92