

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: P1217486

Luminaire Tested: S125DRP-S1005D930-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217486
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-S1005D930-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

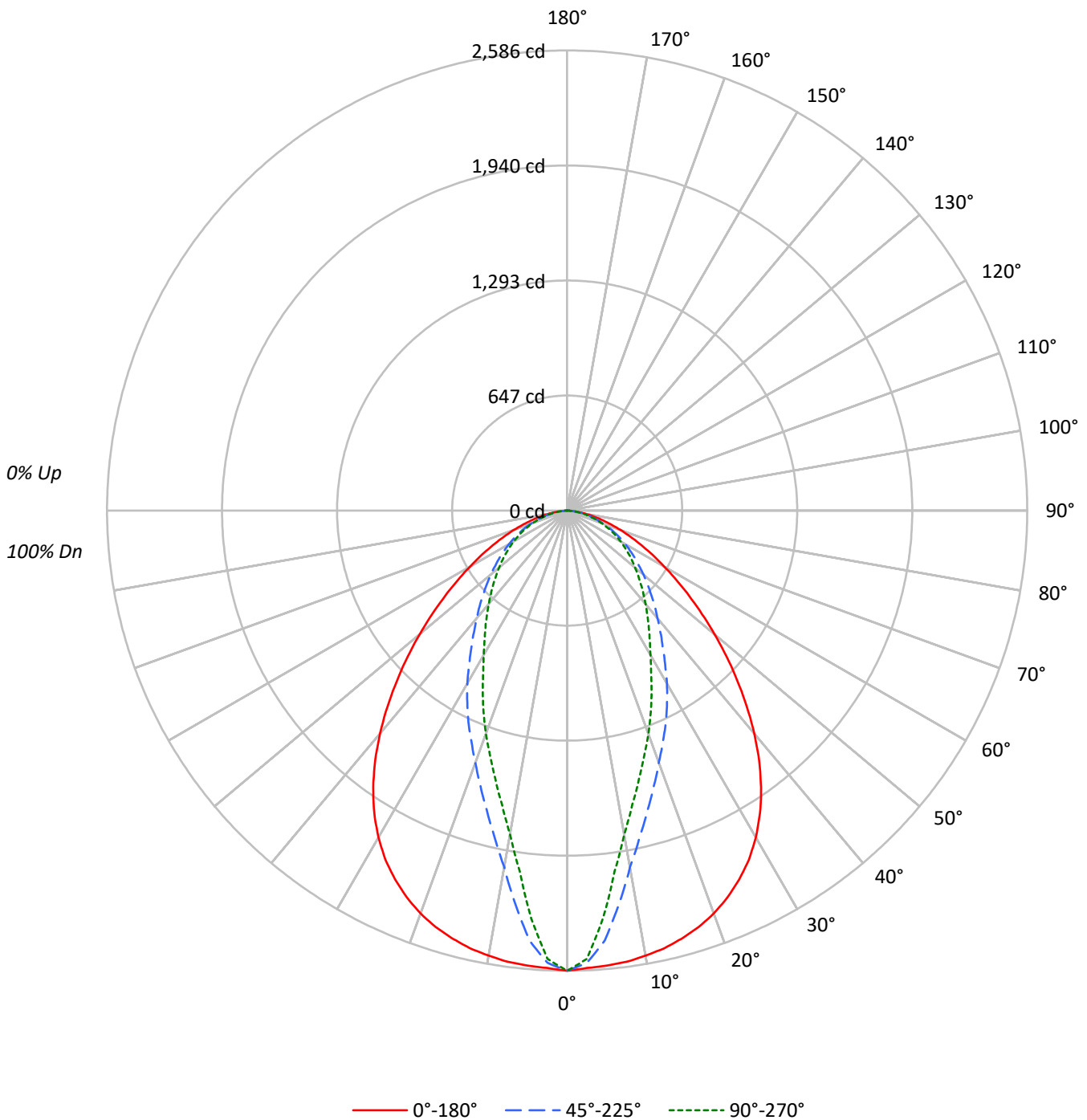
Lumens per Lamp: N/A
Luminaire Lumens: 3683.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	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°	18280	18280	18280
5°	18215	17206	16341
10°	18230	14609	13258
15°	18223	12773	11421
20°	18126	11339	10038
25°	17842	10232	8746
30°	17310	9152	7645
35°	16400	8082	6908
40°	15099	7288	6326
45°	13530	6664	5860
50°	11889	6159	5481
55°	10331	5720	5180
60°	8923	5323	4905
65°	7685	4951	4615
70°	6583	4527	4258
75°	5498	3944	3783
80°	4340	3228	3135
85°	2782	2206	2206

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13530 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.9	6.0
10°-20°	524.1	14.2
20°-30°	665.9	18.1
30°-40°	678.2	18.4
40°-50°	599.9	16.3
50°-60°	470.2	12.8
60°-70°	320.7	8.7
70°-80°	165.1	4.5
80°-90°	36.9	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°	1412.0	38.3
0°-40°	2090.2	56.8
0°-60°	3160.3	85.8
0°-90°	3683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3683.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2586	2586	2586	2586	2586	
5°	2567	2554	2425	2330	2303	244
15°	2490	2106	1745	1590	1560	702
25°	2287	1624	1312	1156	1121	1051
35°	1900	1229	936	818	800	1183
45°	1353	870	667	594	586	1044
55°	838	581	464	422	420	754
65°	459	354	296	274	276	460
75°	201	169	144	135	138	217
85°	34	32	27	25	27	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2585.8	2585.8	2585.8	2585.8	2585.8
2.5°	2572.7	2592.9	2544.3	2531.3	2521.8
5°	2566.8	2553.8	2424.7	2330.0	2302.8
7.5°	2557.4	2485.1	2230.6	2069.6	2044.7
10°	2539.6	2377.4	2035.2	1877.8	1847.0
12.5°	2519.5	2248.3	1881.3	1721.5	1691.9
15°	2489.9	2106.3	1745.2	1590.1	1560.5
17.5°	2454.3	1971.3	1622.0	1469.3	1440.9
20°	2409.4	1848.2	1507.2	1362.7	1334.3
22.5°	2353.7	1732.1	1405.4	1257.4	1226.6
25°	2287.4	1624.4	1311.8	1155.5	1121.2
27.5°	2211.6	1521.4	1215.9	1053.7	1020.6
30°	2120.5	1420.8	1121.2	963.7	936.5
32.5°	2017.5	1323.7	1024.1	885.6	863.1
35°	1900.3	1228.9	936.5	818.1	800.4
37.5°	1772.4	1135.4	860.7	755.4	740.0
40°	1636.2	1044.3	789.7	697.4	685.5
42.5°	1495.3	956.6	728.1	645.3	634.6
45°	1353.3	870.2	666.6	594.3	586.1
47.5°	1214.7	790.9	612.1	548.2	541.1
50°	1081.0	716.3	560.0	503.2	498.4
52.5°	955.5	646.4	509.1	461.7	459.4
55°	838.2	581.3	464.1	421.5	420.3
57.5°	730.5	519.8	419.1	382.4	382.4
60°	631.1	461.7	376.5	344.5	346.9
62.5°	542.3	406.1	336.2	309.0	311.4
65°	459.4	354.0	296.0	273.5	275.9
67.5°	384.8	304.3	256.9	238.0	240.3
70°	318.5	256.9	219.0	202.5	206.0
72.5°	256.9	213.1	181.1	168.1	171.7
75°	201.3	169.3	144.4	135.0	138.5
77.5°	151.5	129.1	111.3	103.0	106.6
80°	106.6	92.3	79.3	73.4	77.0
82.5°	66.3	59.2	52.1	47.4	49.7
85°	34.3	32.0	27.2	24.9	27.2
87.5°	11.8	11.8	10.7	9.5	10.7
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	18.97	20.46	19.34	20.77	21.09	16.36	17.84	16.72	18.16	18.47
	3H	20.56	21.89	20.94	22.22	22.58	18.00	19.33	18.38	19.66	20.02
	4H	21.09	22.34	21.49	22.69	23.07	18.58	19.82	18.98	20.17	20.55
	6H	21.43	22.58	21.84	22.95	23.34	18.95	20.10	19.36	20.47	20.86
	8H	21.51	22.61	21.94	23.00	23.40	19.05	20.14	19.47	20.53	20.94
	12H	21.54	22.59	21.97	22.97	23.40	19.09	20.14	19.52	20.52	20.95
4H	2H	19.21	20.46	19.61	20.81	21.19	17.04	18.29	17.44	18.64	19.02
	3H	21.00	22.03	21.41	22.43	22.83	18.86	19.90	19.27	20.30	20.70
	4H	21.64	22.58	22.08	22.99	23.43	19.53	20.46	19.96	20.88	21.32
	6H	22.10	22.91	22.55	23.35	23.81	19.99	20.80	20.45	21.25	21.71
	8H	22.21	22.97	22.68	23.41	23.88	20.12	20.87	20.58	21.32	21.79
	12H	22.27	22.95	22.75	23.43	23.90	20.19	20.86	20.67	21.34	21.81
8H	4H	21.75	22.51	22.22	22.95	23.42	19.83	20.58	20.29	21.03	21.49
	6H	22.28	22.90	22.78	23.39	23.87	20.38	21.00	20.87	21.49	21.97
	8H	22.44	23.00	22.96	23.51	24.00	20.54	21.10	21.06	21.61	22.10
	12H	22.55	23.04	23.06	23.53	24.10	20.66	21.15	21.17	21.64	22.21
12H	4H	21.74	22.42	22.22	22.90	23.37	19.85	20.52	20.33	21.00	21.47
	6H	22.27	22.83	22.79	23.34	23.83	20.41	20.97	20.93	21.48	21.97
	8H	22.47	22.97	22.98	23.46	24.02	20.63	21.12	21.14	21.61	22.18