

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: P1217506

Luminaire Tested: S125DRP-S485D940-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217506
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-S485D940-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

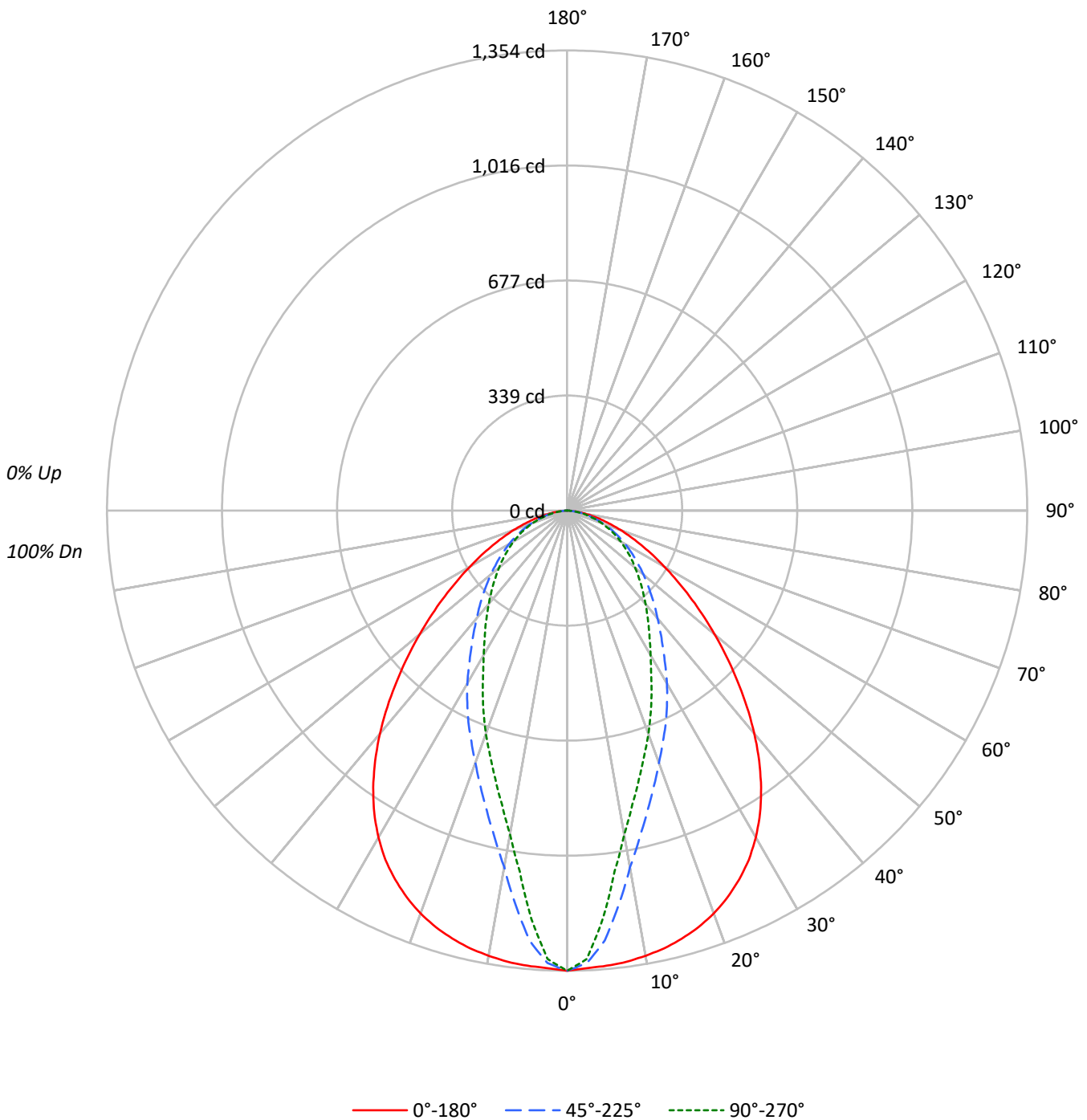
Lumens per Lamp: N/A
Luminaire Lumens: 1928.8 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 19.1
Input Voltage (V): 120
Input Current (A_{in}): 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°	9573	9573	9573
5°	9540	9011	8558
10°	9547	7651	6944
15°	9544	6689	5981
20°	9493	5938	5257
25°	9344	5359	4580
30°	9065	4793	4004
35°	8589	4233	3617
40°	7908	3817	3313
45°	7085	3490	3068
50°	6226	3226	2870
55°	5411	2996	2713
60°	4673	2788	2569
65°	4025	2593	2417
70°	3448	2371	2230
75°	2879	2065	1980
80°	2272	1689	1641
85°	1460	1160	1160

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7085 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	6.0
10°-20°	274.5	14.2
20°-30°	348.7	18.1
30°-40°	355.2	18.4
40°-50°	314.2	16.3
50°-60°	246.2	12.8
60°-70°	167.9	8.7
70°-80°	86.5	4.5
80°-90°	19.3	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°	739.5	38.3
0°-40°	1094.6	56.8
0°-60°	1655.0	85.8
0°-90°	1928.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1928.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1354	1354	1354	1354	1354	
5°	1344	1337	1270	1220	1206	128
15°	1304	1103	914	833	817	368
25°	1198	851	687	605	587	550
35°	995	644	490	428	419	619
45°	709	456	349	311	307	547
55°	439	304	243	221	220	395
65°	241	185	155	143	144	241
75°	105	89	76	71	72	113
85°	18	17	14	13	14	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1354.2	1354.2	1354.2	1354.2	1354.2
2.5°	1347.4	1357.9	1332.5	1325.7	1320.7
5°	1344.3	1337.4	1269.8	1220.2	1206.0
7.5°	1339.3	1301.5	1168.2	1083.8	1070.8
10°	1330.0	1245.0	1065.9	983.4	967.3
12.5°	1319.5	1177.5	985.2	901.5	886.0
15°	1304.0	1103.1	913.9	832.7	817.2
17.5°	1285.3	1032.4	849.5	769.5	754.6
20°	1261.8	967.9	789.3	713.7	698.8
22.5°	1232.6	907.1	736.0	658.5	642.4
25°	1197.9	850.7	687.0	605.2	587.2
27.5°	1158.2	796.8	636.8	551.8	534.5
30°	1110.5	744.1	587.2	504.7	490.5
32.5°	1056.6	693.2	536.3	463.8	452.0
35°	995.2	643.6	490.5	428.4	419.1
37.5°	928.2	594.6	450.8	395.6	387.5
40°	856.9	546.9	413.6	365.2	359.0
42.5°	783.1	501.0	381.3	337.9	332.3
45°	708.7	455.7	349.1	311.3	306.9
47.5°	636.2	414.2	320.6	287.1	283.4
50°	566.1	375.1	293.3	263.5	261.0
52.5°	500.4	338.5	266.6	241.8	240.6
55°	439.0	304.4	243.1	220.7	220.1
57.5°	382.6	272.2	219.5	200.3	200.3
60°	330.5	241.8	197.2	180.4	181.7
62.5°	284.0	212.7	176.1	161.8	163.1
65°	240.6	185.4	155.0	143.2	144.5
67.5°	201.5	159.4	134.5	124.6	125.9
70°	166.8	134.5	114.7	106.0	107.9
72.5°	134.5	111.6	94.9	88.0	89.9
75°	105.4	88.7	75.6	70.7	72.5
77.5°	79.4	67.6	58.3	53.9	55.8
80°	55.8	48.4	41.5	38.4	40.3
82.5°	34.7	31.0	27.3	24.8	26.0
85°	18.0	16.7	14.3	13.0	14.3
87.5°	6.2	6.2	5.6	5.0	5.6
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	16.72	18.21	17.09	18.52	18.84	14.11	15.60	14.48	15.91	16.23
	3H	18.31	19.64	18.69	19.97	20.33	15.75	17.09	16.13	17.41	17.78
	4H	18.85	20.09	19.25	20.44	20.82	16.33	17.58	16.73	17.93	18.31
	6H	19.18	20.34	19.60	20.70	21.09	16.70	17.86	17.12	18.22	18.62
	8H	19.26	20.36	19.69	20.75	21.15	16.80	17.90	17.23	18.29	18.69
	12H	19.29	20.34	19.72	20.73	21.15	16.84	17.89	17.28	18.28	18.71
4H	2H	16.97	18.22	17.37	18.56	18.94	14.80	16.05	15.20	16.40	16.78
	3H	18.75	19.79	19.16	20.19	20.59	16.62	17.65	17.03	18.05	18.45
	4H	19.40	20.33	19.83	20.74	21.18	17.28	18.21	17.71	18.63	19.07
	6H	19.85	20.66	20.31	21.10	21.56	17.75	18.56	18.20	19.00	19.46
	8H	19.96	20.72	20.43	21.16	21.63	17.87	18.63	18.33	19.07	19.54
	12H	20.02	20.70	20.51	21.18	21.65	17.94	18.61	18.42	19.09	19.56
8H	4H	19.50	20.26	19.97	20.70	21.17	17.58	18.33	18.04	18.78	19.25
	6H	20.03	20.66	20.53	21.15	21.63	18.13	18.75	18.63	19.24	19.72
	8H	20.19	20.75	20.71	21.26	21.75	18.30	18.85	18.81	19.36	19.85
	12H	20.30	20.79	20.81	21.28	21.85	18.41	18.90	18.92	19.39	19.96
12H	4H	19.49	20.17	19.98	20.65	21.12	17.60	18.28	18.09	18.76	19.23
	6H	20.03	20.59	20.54	21.10	21.59	18.17	18.73	18.68	19.24	19.72
	8H	20.23	20.72	20.74	21.21	21.78	18.38	18.87	18.89	19.36	19.93