

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: P1217507

Luminaire Tested: S125DRP-S485D950-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217507
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-S485D950-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

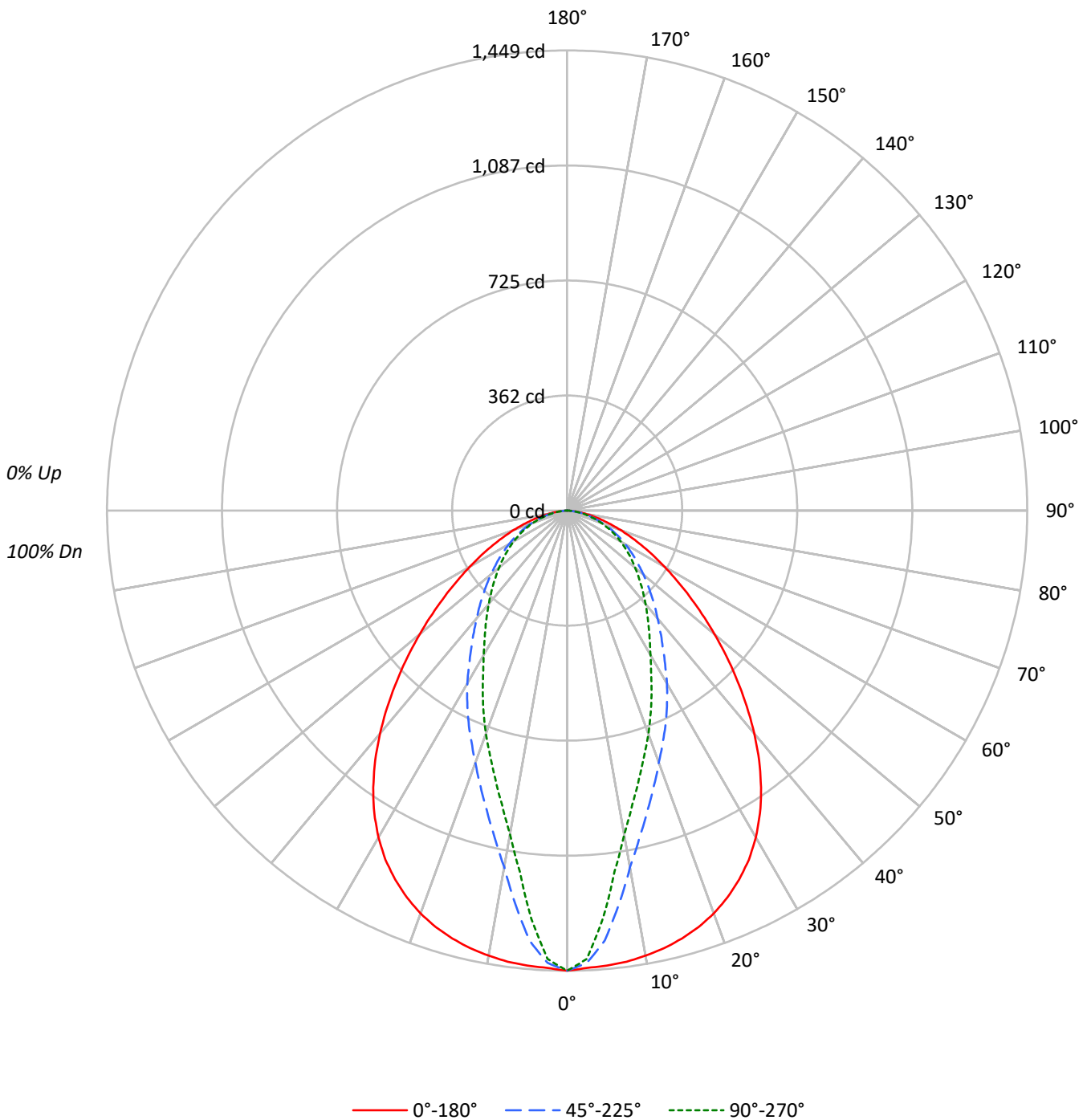
Lumens per Lamp: N/A
Luminaire Lumens: 2063.5 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 19.1
Input Voltage (V): 120
Input Current (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																		
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	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°	10242	10242	10242
5°	10206	9641	9156
10°	10214	8186	7428
15°	10210	7156	6399
20°	10155	6353	5624
25°	9997	5733	4900
30°	9698	5128	4283
35°	9188	4528	3870
40°	8461	4084	3545
45°	7580	3734	3283
50°	6660	3451	3072
55°	5789	3205	2903
60°	4999	2982	2749
65°	4306	2773	2586
70°	3687	2536	2385
75°	3081	2210	2120
80°	2430	1808	1755
85°	1557	1241	1241

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7580 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	6.0
10°-20°	293.7	14.2
20°-30°	373.1	18.1
30°-40°	380.0	18.4
40°-50°	336.1	16.3
50°-60°	263.4	12.8
60°-70°	179.6	8.7
70°-80°	92.5	4.5
80°-90°	20.7	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°	791.1	38.3
0°-40°	1171.1	56.8
0°-60°	1770.7	85.8
0°-90°	2063.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2063.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1449	1449	1449	1449	1449	
5°	1438	1431	1359	1306	1290	137
15°	1395	1180	978	891	874	394
25°	1282	910	735	647	628	589
35°	1065	689	525	458	448	663
45°	758	488	374	333	328	585
55°	470	326	260	236	236	423
65°	257	198	166	153	155	258
75°	113	95	81	76	78	121
85°	19	18	15	14	15	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.8	1448.8	1448.8	1448.8	1448.8
2.5°	1441.5	1452.7	1425.6	1418.3	1412.9
5°	1438.2	1430.9	1358.6	1305.5	1290.2
7.5°	1432.8	1392.4	1249.8	1159.5	1145.6
10°	1422.9	1332.0	1140.3	1052.1	1034.8
12.5°	1411.6	1259.7	1054.1	964.5	947.9
15°	1395.0	1180.1	977.8	890.9	874.3
17.5°	1375.1	1104.5	908.8	823.2	807.3
20°	1349.9	1035.5	844.5	763.5	747.6
22.5°	1318.8	970.5	787.4	704.5	687.2
25°	1281.6	910.1	735.0	647.4	628.2
27.5°	1239.1	852.4	681.3	590.4	571.8
30°	1188.1	796.0	628.2	540.0	524.7
32.5°	1130.4	741.6	573.8	496.2	483.6
35°	1064.7	688.6	524.7	458.4	448.4
37.5°	993.0	636.2	482.3	423.2	414.6
40°	916.8	585.1	442.5	390.7	384.1
42.5°	837.8	536.0	408.0	361.5	355.6
45°	758.2	487.6	373.5	333.0	328.4
47.5°	680.6	443.1	343.0	307.1	303.2
50°	605.6	401.3	313.8	281.9	279.3
52.5°	535.3	362.2	285.2	258.7	257.4
55°	469.7	325.7	260.0	236.2	235.5
57.5°	409.3	291.2	234.8	214.3	214.3
60°	353.6	258.7	210.9	193.0	194.4
62.5°	303.8	227.5	188.4	173.1	174.5
65°	257.4	198.3	165.8	153.2	154.6
67.5°	215.6	170.5	143.9	133.3	134.7
70°	178.4	143.9	122.7	113.4	115.4
72.5°	143.9	119.4	101.5	94.2	96.2
75°	112.8	94.9	80.9	75.6	77.6
77.5°	84.9	72.3	62.4	57.7	59.7
80°	59.7	51.7	44.4	41.1	43.1
82.5°	37.1	33.2	29.2	26.5	27.9
85°	19.2	17.9	15.3	13.9	15.3
87.5°	6.6	6.6	6.0	5.3	6.0
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	16.96	18.45	17.32	18.76	19.07	14.35	15.83	14.71	16.15	16.46
	3H	18.55	19.88	18.92	20.21	20.57	15.99	17.32	16.37	17.65	18.01
	4H	19.08	20.33	19.48	20.68	21.06	16.56	17.81	16.96	18.16	18.54
	6H	19.42	20.57	19.83	20.94	21.33	16.94	18.09	17.35	18.46	18.85
	8H	19.50	20.59	19.92	20.98	21.38	17.03	18.13	17.46	18.52	18.92
	12H	19.53	20.58	19.96	20.96	21.39	17.08	18.13	17.51	18.51	18.94
4H	2H	17.20	18.45	17.60	18.80	19.18	15.03	16.28	15.43	16.63	17.01
	3H	18.98	20.02	19.39	20.42	20.82	16.85	17.89	17.26	18.29	18.69
	4H	19.63	20.56	20.06	20.98	21.42	17.52	18.45	17.95	18.86	19.30
	6H	20.08	20.89	20.54	21.34	21.80	17.98	18.79	18.44	19.23	19.69
	8H	20.20	20.95	20.66	21.40	21.87	18.10	18.86	18.57	19.30	19.77
	12H	20.26	20.93	20.74	21.41	21.88	18.17	18.85	18.66	19.33	19.80
8H	4H	19.74	20.49	20.20	20.94	21.41	17.81	18.57	18.28	19.01	19.48
	6H	20.27	20.89	20.76	21.38	21.86	18.36	18.99	18.86	19.48	19.96
	8H	20.43	20.99	20.94	21.50	21.98	18.53	19.09	19.05	19.60	20.09
	12H	20.53	21.03	21.04	21.52	22.08	18.64	19.14	19.15	19.63	20.19
12H	4H	19.73	20.40	20.21	20.88	21.35	17.84	18.51	18.32	18.99	19.46
	6H	20.26	20.82	20.78	21.33	21.82	18.40	18.96	18.92	19.47	19.96
	8H	20.46	20.95	20.97	21.45	22.01	18.61	19.11	19.12	19.60	20.16