

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: P1217498

Luminaire Tested: S125DRP-S290D950-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217498
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-S290D950-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

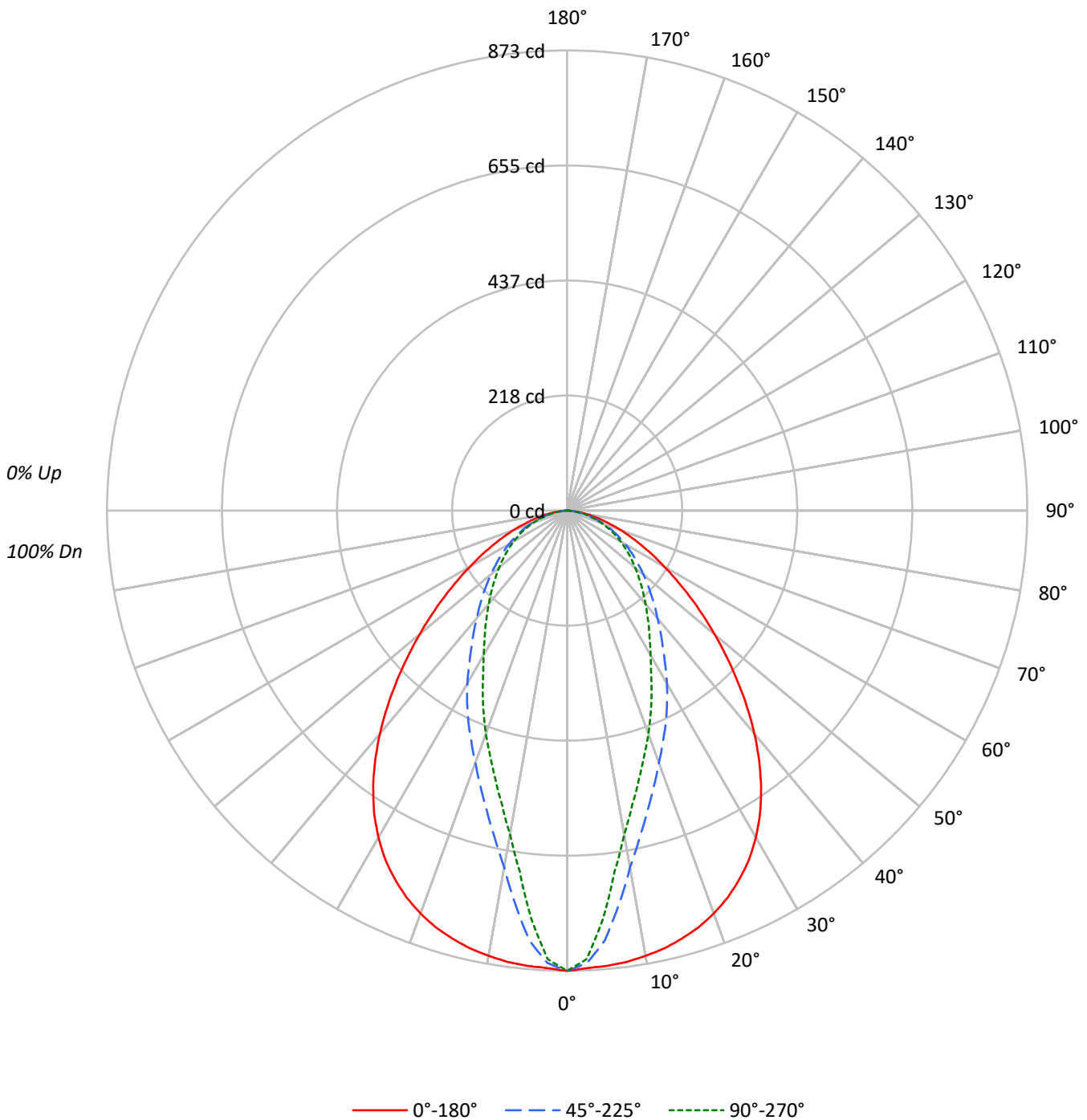
Lumens per Lamp: N/A
Luminaire Lumens: 1243.8 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 12.6
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			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°	6173	6173	6173
5°	6151	5810	5519
10°	6156	4934	4477
15°	6154	4313	3857
20°	6121	3829	3390
25°	6026	3455	2953
30°	5846	3090	2582
35°	5538	2730	2333
40°	5100	2461	2136
45°	4569	2250	1979
50°	4014	2080	1851
55°	3489	1931	1749
60°	3013	1797	1656
65°	2594	1673	1559
70°	2224	1530	1439
75°	1857	1333	1278
80°	1466	1091	1058
85°	941	746	746

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4569 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	6.0
10°-20°	177.0	14.2
20°-30°	224.9	18.1
30°-40°	229.0	18.4
40°-50°	202.6	16.3
50°-60°	158.8	12.8
60°-70°	108.3	8.7
70°-80°	55.8	4.5
80°-90°	12.5	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°	476.8	38.3
0°-40°	705.9	56.8
0°-60°	1067.2	85.8
0°-90°	1243.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1243.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	867	862	819	787	778	82
15°	841	711	589	537	527	237
25°	772	549	443	390	379	355
35°	642	415	316	276	270	399
45°	457	294	225	201	198	353
55°	283	196	157	142	142	255
65°	155	120	100	92	93	155
75°	68	57	49	46	47	73
85°	12	11	9	8	9	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	873.2	873.2	873.2	873.2	873.2
2.5°	868.8	875.6	859.2	854.8	851.6
5°	866.8	862.4	818.8	786.9	777.7
7.5°	863.6	839.2	753.3	698.9	690.5
10°	857.6	802.8	687.3	634.1	623.7
12.5°	850.8	759.3	635.3	581.3	571.4
15°	840.8	711.3	589.3	537.0	527.0
17.5°	828.8	665.7	547.8	496.2	486.6
20°	813.6	624.1	509.0	460.2	450.6
22.5°	794.9	584.9	474.6	424.6	414.2
25°	772.5	548.6	443.0	390.2	378.6
27.5°	746.9	513.8	410.6	355.8	344.6
30°	716.1	479.8	378.6	325.5	316.3
32.5°	681.3	447.0	345.8	299.1	291.5
35°	641.7	415.0	316.3	276.3	270.3
37.5°	598.5	383.4	290.7	255.1	249.9
40°	552.6	352.6	266.7	235.5	231.5
42.5°	505.0	323.1	245.9	217.9	214.3
45°	457.0	293.9	225.1	200.7	197.9
47.5°	410.2	267.1	206.7	185.1	182.7
50°	365.0	241.9	189.1	169.9	168.3
52.5°	322.7	218.3	171.9	155.9	155.1
55°	283.1	196.3	156.7	142.3	141.9
57.5°	246.7	175.5	141.5	129.1	129.1
60°	213.1	155.9	127.1	116.3	117.1
62.5°	183.1	137.1	113.6	104.4	105.2
65°	155.1	119.5	100.0	92.4	93.2
67.5°	129.9	102.8	86.8	80.4	81.2
70°	107.6	86.8	74.0	68.4	69.6
72.5°	86.8	72.0	61.2	56.8	58.0
75°	68.0	57.2	48.8	45.6	46.8
77.5°	51.2	43.6	37.6	34.8	36.0
80°	36.0	31.2	26.8	24.8	26.0
82.5°	22.4	20.0	17.6	16.0	16.8
85°	11.6	10.8	9.2	8.4	9.2
87.5°	4.0	4.0	3.6	3.2	3.6
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	15.20	16.69	15.56	17.00	17.31	12.58	14.07	12.95	14.38	14.70
	3H	16.79	18.12	17.17	18.45	18.81	14.23	15.56	14.61	15.89	16.25
	4H	17.32	18.57	17.72	18.92	19.30	14.80	16.05	15.20	16.40	16.78
	6H	17.66	18.81	18.07	19.18	19.57	15.18	16.33	15.59	16.70	17.09
	8H	17.74	18.84	18.17	19.23	19.63	15.28	16.37	15.70	16.76	17.16
	12H	17.77	18.82	18.20	19.20	19.63	15.32	16.37	15.75	16.75	17.18
4H	2H	15.44	16.69	15.84	17.04	17.42	13.27	14.52	13.67	14.87	15.25
	3H	17.23	18.26	17.64	18.66	19.06	15.09	16.13	15.50	16.53	16.93
	4H	17.87	18.80	18.31	19.22	19.66	15.76	16.69	16.19	17.11	17.54
	6H	18.33	19.14	18.78	19.58	20.04	16.22	17.03	16.68	17.48	17.94
	8H	18.44	19.20	18.90	19.64	20.11	16.35	17.10	16.81	17.55	18.02
	12H	18.50	19.18	18.98	19.65	20.13	16.42	17.09	16.90	17.57	18.04
8H	4H	17.98	18.74	18.44	19.18	19.65	16.05	16.81	16.52	17.26	17.72
	6H	18.51	19.13	19.01	19.62	20.10	16.61	17.23	17.10	17.72	18.20
	8H	18.67	19.23	19.19	19.74	20.23	16.77	17.33	17.29	17.84	18.33
	12H	18.78	19.27	19.29	19.76	20.33	16.89	17.38	17.40	17.87	18.44
12H	4H	17.97	18.65	18.45	19.12	19.60	16.08	16.75	16.56	17.23	17.70
	6H	18.50	19.06	19.02	19.57	20.06	16.64	17.20	17.16	17.71	18.20
	8H	18.70	19.20	19.21	19.69	20.25	16.86	17.35	17.37	17.84	18.41