

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: P1217496

Luminaire Tested: S125DRP-S290D935-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217496
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-S290D935-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

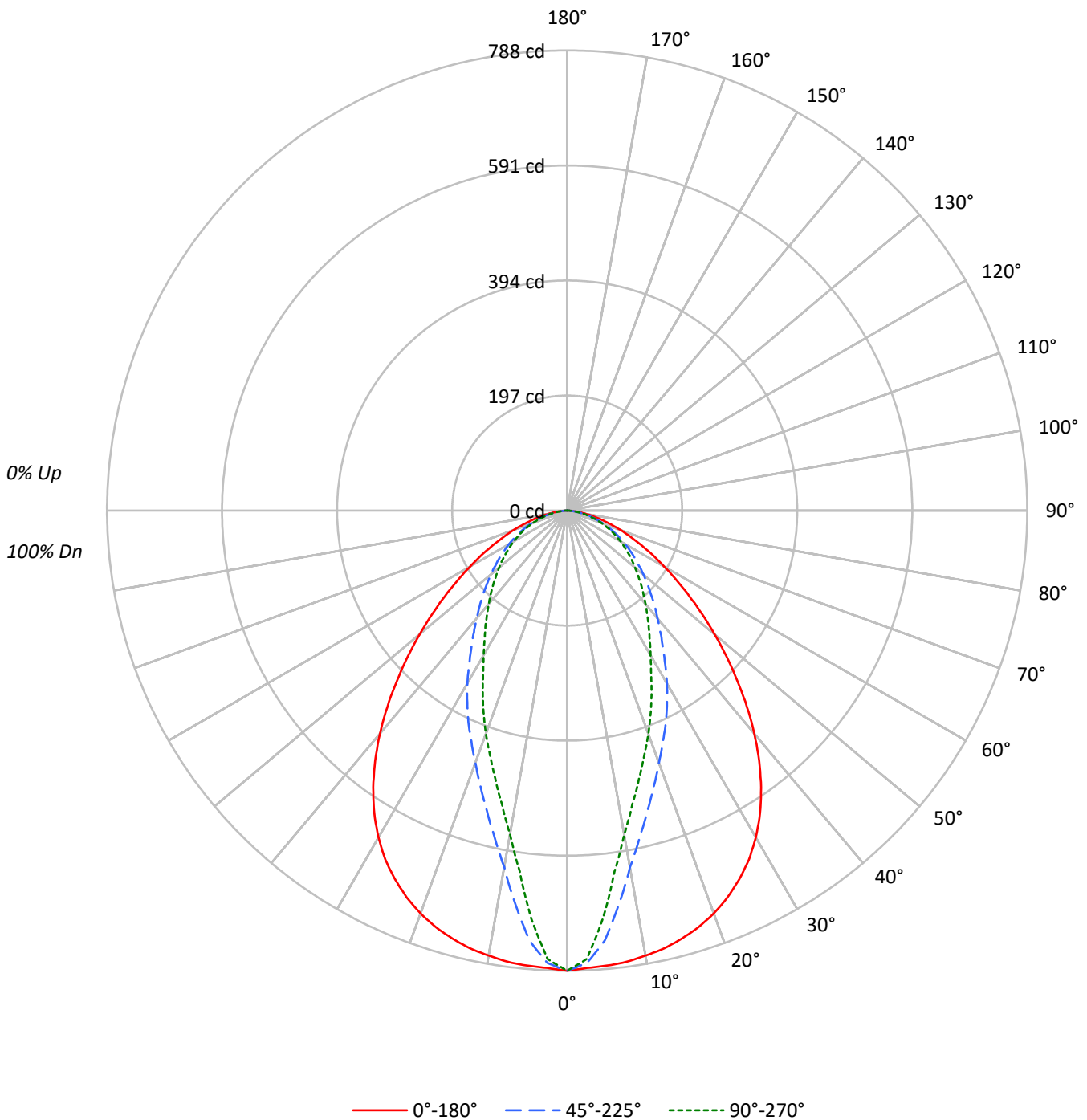
Lumens per Lamp: N/A
Luminaire Lumens: 1122.5 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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									
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	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°	5571	5571	5571
5°	5551	5244	4980
10°	5556	4453	4041
15°	5554	3893	3481
20°	5524	3456	3060
25°	5438	3119	2665
30°	5276	2789	2330
35°	4999	2463	2105
40°	4602	2221	1928
45°	4123	2032	1786
50°	3624	1877	1671
55°	3149	1744	1579
60°	2719	1622	1494
65°	2342	1509	1407
70°	2007	1381	1298
75°	1674	1202	1153
80°	1323	985	957
85°	852	673	673

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4123 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	6.0
10°-20°	159.8	14.2
20°-30°	203.0	18.1
30°-40°	206.7	18.4
40°-50°	182.8	16.3
50°-60°	143.3	12.8
60°-70°	97.7	8.7
70°-80°	50.3	4.5
80°-90°	11.2	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°	430.3	38.3
0°-40°	637.0	56.8
0°-60°	963.2	85.8
0°-90°	1122.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1122.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	782	778	739	710	702	74
15°	759	642	532	485	476	214
25°	697	495	400	352	342	320
35°	579	375	285	249	244	360
45°	412	265	203	181	179	318
55°	256	177	142	128	128	230
65°	140	108	90	83	84	140
75°	61	52	44	41	42	66
85°	10	10	8	8	8	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	788.1	788.1	788.1	788.1	788.1
2.5°	784.1	790.3	775.5	771.5	768.6
5°	782.3	778.3	739.0	710.1	701.8
7.5°	779.4	757.4	679.8	630.8	623.2
10°	774.0	724.6	620.3	572.3	562.9
12.5°	767.9	685.3	573.4	524.7	515.7
15°	758.9	641.9	531.9	484.6	475.6
17.5°	748.0	600.8	494.4	447.8	439.2
20°	734.3	563.3	459.4	415.3	406.7
22.5°	717.4	527.9	428.3	383.2	373.8
25°	697.2	495.1	399.8	352.2	341.7
27.5°	674.1	463.7	370.6	321.2	311.1
30°	646.3	433.0	341.7	293.7	285.4
32.5°	614.9	403.4	312.1	269.9	263.1
35°	579.2	374.6	285.4	249.3	243.9
37.5°	540.2	346.1	262.3	230.2	225.5
40°	498.7	318.3	240.7	212.5	208.9
42.5°	455.8	291.6	221.9	196.7	193.4
45°	412.4	265.2	203.2	181.1	178.6
47.5°	370.2	241.0	186.6	167.1	164.9
50°	329.5	218.3	170.7	153.4	151.9
52.5°	291.2	197.0	155.2	140.7	140.0
55°	255.5	177.2	141.5	128.5	128.1
57.5°	222.6	158.4	127.7	116.6	116.6
60°	192.3	140.7	114.7	105.0	105.7
62.5°	165.3	123.8	102.5	94.2	94.9
65°	140.0	107.9	90.2	83.4	84.1
67.5°	117.3	92.7	78.3	72.5	73.3
70°	97.1	78.3	66.8	61.7	62.8
72.5°	78.3	65.0	55.2	51.2	52.3
75°	61.3	51.6	44.0	41.1	42.2
77.5°	46.2	39.3	33.9	31.4	32.5
80°	32.5	28.1	24.2	22.4	23.5
82.5°	20.2	18.0	15.9	14.4	15.2
85°	10.5	9.7	8.3	7.6	8.3
87.5°	3.6	3.6	3.2	2.9	3.2
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	14.84	16.33	15.21	16.64	16.96	12.23	13.72	12.60	14.03	14.35
	3H	16.43	17.76	16.81	18.09	18.45	13.88	15.21	14.25	15.54	15.90
	4H	16.96	18.21	17.36	18.56	18.94	14.45	15.70	14.85	16.05	16.43
	6H	17.30	18.45	17.71	18.82	19.21	14.82	15.98	15.24	16.34	16.74
	8H	17.38	18.48	17.81	18.87	19.27	14.92	16.02	15.35	16.41	16.81
	12H	17.41	18.46	17.84	18.84	19.27	14.97	16.02	15.40	16.40	16.83
4H	2H	15.08	16.33	15.48	16.68	17.06	12.92	14.17	13.32	14.52	14.90
	3H	16.87	17.90	17.28	18.30	18.71	14.74	15.77	15.15	16.17	16.57
	4H	17.51	18.45	17.95	18.86	19.30	15.40	16.33	15.83	16.75	17.19
	6H	17.97	18.78	18.43	19.22	19.68	15.87	16.68	16.32	17.12	17.58
	8H	18.08	18.84	18.55	19.28	19.75	15.99	16.75	16.45	17.19	17.66
	12H	18.14	18.82	18.63	19.30	19.77	16.06	16.73	16.54	17.21	17.69
8H	4H	17.62	18.38	18.09	18.82	19.29	15.70	16.45	16.16	16.90	17.37
	6H	18.15	18.77	18.65	19.27	19.74	16.25	16.87	16.75	17.36	17.84
	8H	18.31	18.87	18.83	19.38	19.87	16.42	16.98	16.93	17.49	17.97
	12H	18.42	18.91	18.93	19.40	19.97	16.53	17.02	17.04	17.51	18.08
12H	4H	17.61	18.29	18.10	18.77	19.24	15.72	16.40	16.20	16.87	17.35
	6H	18.14	18.70	18.66	19.21	19.70	16.29	16.85	16.80	17.36	17.85
	8H	18.34	18.84	18.85	19.33	19.89	16.50	16.99	17.01	17.49	18.05