

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: P1217492

Luminaire Tested: S125DRP-S290D840-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217492
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-S290D840-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

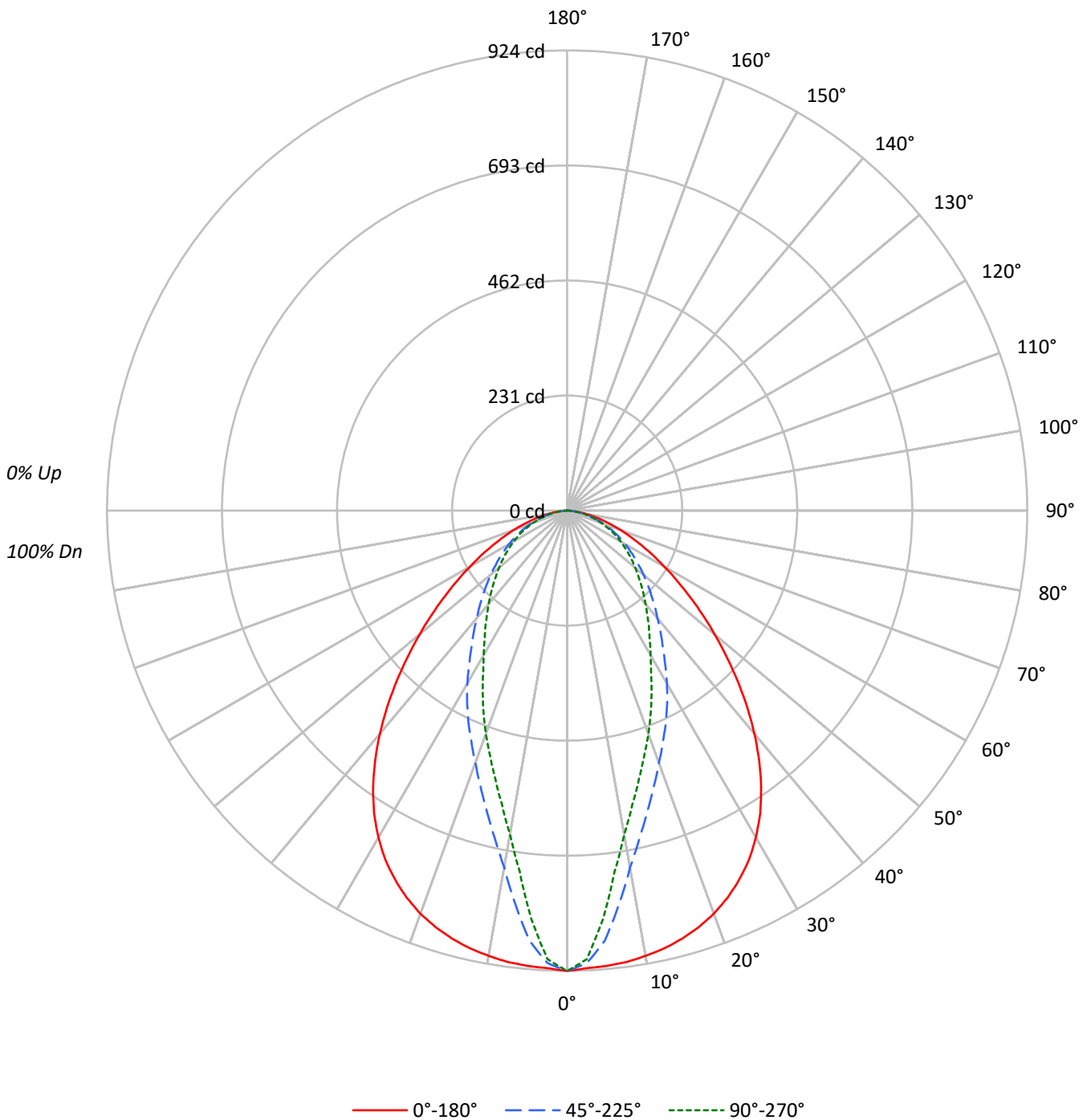
Lumens per Lamp: N/A
Luminaire Lumens: 1316.6 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1217492

CATALOG NUMBER: S125DRP-S290D840-X4F0-XX-UDD-G-W

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	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°	6535	6535	6535
5°	6512	6151	5842
10°	6517	5222	4740
15°	6514	4566	4082
20°	6480	4053	3588
25°	6378	3657	3126
30°	6188	3272	2733
35°	5862	2889	2469
40°	5398	2605	2262
45°	4837	2382	2094
50°	4250	2202	1960
55°	3694	2045	1851
60°	3190	1903	1753
65°	2747	1770	1649
70°	2354	1618	1521
75°	1967	1409	1352
80°	1551	1156	1120
85°	998	787	787

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4837 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	6.0
10°-20°	187.4	14.2
20°-30°	238.0	18.1
30°-40°	242.5	18.4
40°-50°	214.5	16.3
50°-60°	168.1	12.8
60°-70°	114.6	8.7
70°-80°	59.0	4.5
80°-90°	13.2	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°	504.7	38.3
0°-40°	747.2	56.8
0°-60°	1129.7	85.8
0°-90°	1316.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1316.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	918	913	867	833	823	87
15°	890	753	624	568	558	251
25°	818	581	469	413	401	376
35°	679	439	335	292	286	423
45°	484	311	238	212	210	373
55°	300	208	166	151	150	270
65°	164	126	106	98	99	164
75°	72	60	52	48	50	77
85°	12	11	10	9	10	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	924.4	924.4	924.4	924.4	924.4
2.5°	919.7	926.9	909.5	904.9	901.5
5°	917.6	912.9	866.8	832.9	823.2
7.5°	914.2	888.4	797.4	739.8	730.9
10°	907.8	849.9	727.5	671.3	660.3
12.5°	900.7	803.7	672.5	615.4	604.8
15°	890.1	752.9	623.9	568.4	557.8
17.5°	877.4	704.7	579.8	525.2	515.1
20°	861.3	660.7	538.8	487.1	477.0
22.5°	841.4	619.2	502.4	449.5	438.5
25°	817.7	580.7	468.9	413.1	400.8
27.5°	790.6	543.9	434.7	376.7	364.8
30°	758.0	507.9	400.8	344.5	334.8
32.5°	721.2	473.2	366.1	316.6	308.5
35°	679.3	439.3	334.8	292.5	286.1
37.5°	633.6	405.9	307.7	270.0	264.5
40°	584.9	373.3	282.3	249.3	245.1
42.5°	534.6	342.0	260.3	230.7	226.9
45°	483.8	311.1	238.3	212.5	209.5
47.5°	434.2	282.7	218.8	196.0	193.4
50°	386.4	256.1	200.2	179.9	178.2
52.5°	341.6	231.1	182.0	165.1	164.2
55°	299.7	207.8	165.9	150.7	150.2
57.5°	261.1	185.8	149.8	136.7	136.7
60°	225.6	165.1	134.6	123.2	124.0
62.5°	193.8	145.2	120.2	110.5	111.3
65°	164.2	126.5	105.8	97.8	98.6
67.5°	137.6	108.8	91.8	85.1	85.9
70°	113.9	91.8	78.3	72.4	73.6
72.5°	91.8	76.2	64.8	60.1	61.4
75°	72.0	60.5	51.6	48.2	49.5
77.5°	54.2	46.1	39.8	36.8	38.1
80°	38.1	33.0	28.4	26.2	27.5
82.5°	23.7	21.2	18.6	16.9	17.8
85°	12.3	11.4	9.7	8.9	9.7
87.5°	4.2	4.2	3.8	3.4	3.8
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	15.40	16.88	15.76	17.20	17.51	12.78	14.27	13.15	14.58	14.90
	3H	16.99	18.32	17.36	18.65	19.01	14.43	15.76	14.81	16.09	16.45
	4H	17.52	18.77	17.92	19.12	19.50	15.00	16.25	15.40	16.60	16.98
	6H	17.86	19.01	18.27	19.38	19.77	15.38	16.53	15.79	16.90	17.29
	8H	17.94	19.03	18.36	19.42	19.82	15.47	16.57	15.90	16.96	17.36
	12H	17.97	19.02	18.40	19.40	19.83	15.52	16.57	15.95	16.95	17.38
4H	2H	15.64	16.89	16.04	17.24	17.62	13.47	14.72	13.87	15.07	15.45
	3H	17.42	18.46	17.83	18.86	19.26	15.29	16.33	15.70	16.73	17.13
	4H	18.07	19.00	18.50	19.42	19.86	15.95	16.89	16.39	17.30	17.74
	6H	18.52	19.33	18.98	19.77	20.24	16.42	17.23	16.88	17.67	18.13
	8H	18.64	19.39	19.10	19.84	20.31	16.54	17.30	17.01	17.74	18.21
	12H	18.70	19.37	19.18	19.85	20.32	16.61	17.29	17.10	17.77	18.24
8H	4H	18.18	18.93	18.64	19.38	19.85	16.25	17.01	16.72	17.45	17.92
	6H	18.71	19.33	19.20	19.82	20.30	16.80	17.42	17.30	17.92	18.39
	8H	18.87	19.42	19.38	19.94	20.42	16.97	17.53	17.48	18.04	18.53
	12H	18.97	19.47	19.48	19.96	20.52	17.08	17.57	17.59	18.07	18.63
12H	4H	18.17	18.84	18.65	19.32	19.79	16.28	16.95	16.76	17.43	17.90
	6H	18.70	19.26	19.21	19.77	20.26	16.84	17.40	17.35	17.91	18.40
	8H	18.90	19.39	19.41	19.88	20.45	17.05	17.54	17.56	18.04	18.60