

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: P1217491

Luminaire Tested: S125DRP-S290D835-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217491
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-S290D835-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

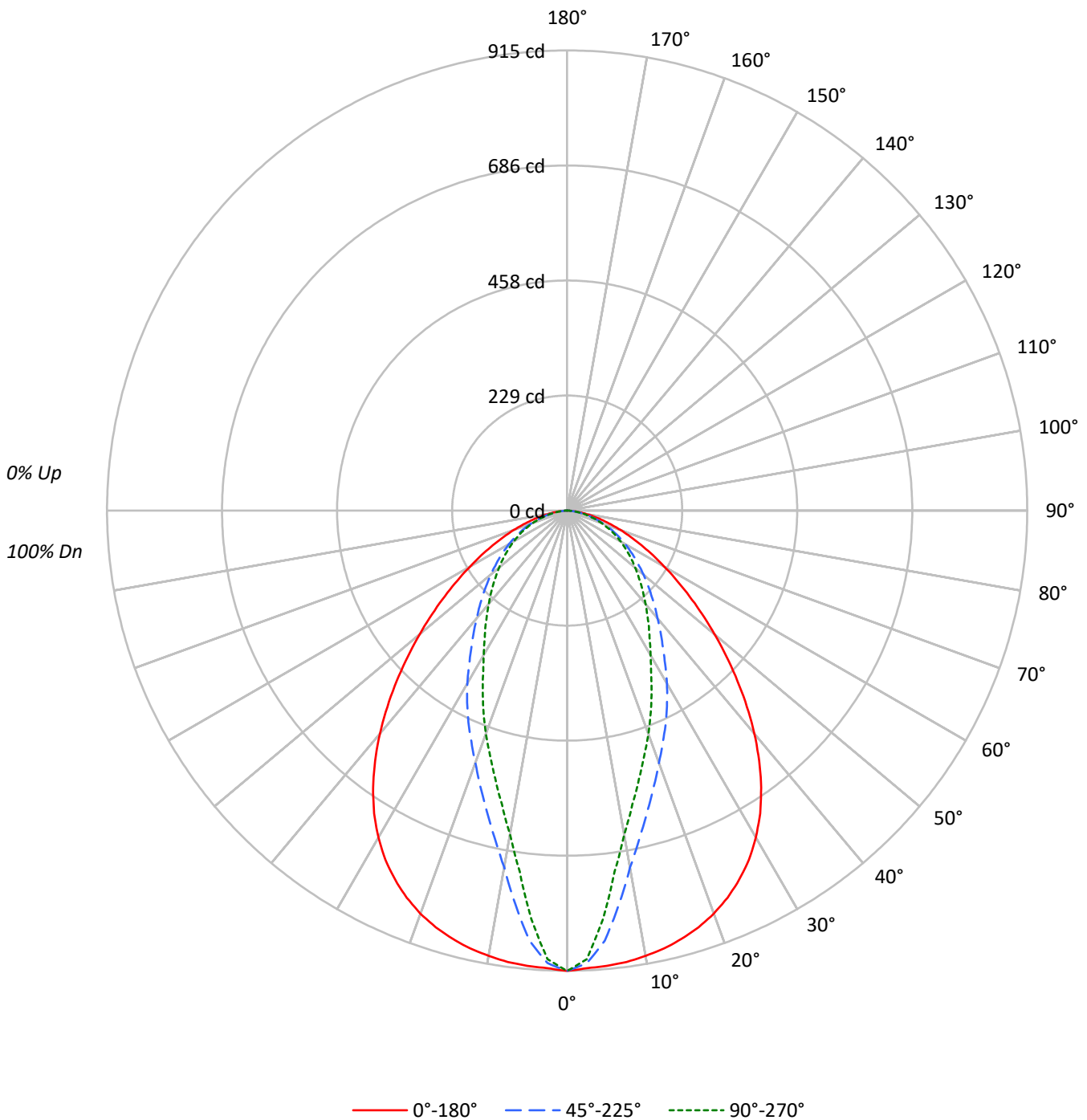
Lumens per Lamp: N/A
Luminaire Lumens: 1303.7 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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: P1217491

CATALOG NUMBER: S125DRP-S290D835-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	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°	6471	6471	6471
5°	6448	6091	5785
10°	6453	5171	4693
15°	6451	4522	4043
20°	6416	4014	3553
25°	6316	3622	3096
30°	6127	3240	2706
35°	5805	2861	2445
40°	5345	2579	2240
45°	4789	2359	2074
50°	4208	2180	1940
55°	3657	2025	1834
60°	3159	1885	1736
65°	2720	1753	1634
70°	2329	1602	1507
75°	1945	1396	1338
80°	1535	1144	1107
85°	990	779	779

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4789 cd/sqm

TEST NUMBER: P1217491

CATALOG NUMBER: S125DRP-S290D835-X4F0-XX-UDD-G-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	6.0
10°-20°	185.5	14.2
20°-30°	235.7	18.1
30°-40°	240.1	18.4
40°-50°	212.4	16.3
50°-60°	166.4	12.8
60°-70°	113.5	8.7
70°-80°	58.4	4.5
80°-90°	13.1	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°	499.8	38.3
0°-40°	739.9	56.8
0°-60°	1118.7	85.8
0°-90°	1303.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1303.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	909	904	858	825	815	86
15°	881	746	618	563	552	249
25°	810	575	464	409	397	372
35°	673	435	332	290	283	419
45°	479	308	236	210	208	369
55°	297	206	164	149	149	267
65°	163	125	105	97	98	163
75°	71	60	51	48	49	77
85°	12	11	10	9	10	16
90°	0	0	0	0	0	

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CATALOG NUMBER: S125DRP-S290D835-X4F0-XX-UDD-G-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	915.3	915.3	915.3	915.3	915.3
2.5°	910.7	917.8	900.7	896.0	892.7
5°	908.6	904.0	858.3	824.8	815.2
7.5°	905.3	879.7	789.6	732.6	723.8
10°	899.0	841.6	720.4	664.7	653.8
12.5°	891.9	795.9	666.0	609.4	598.9
15°	881.4	745.6	617.8	562.9	552.4
17.5°	868.8	697.8	574.2	520.1	510.0
20°	852.9	654.2	533.5	482.4	472.3
22.5°	833.2	613.1	497.5	445.1	434.2
25°	809.7	575.0	464.4	409.0	396.9
27.5°	782.9	538.5	430.4	373.0	361.3
30°	750.6	502.9	396.9	341.2	331.5
32.5°	714.2	468.6	362.5	313.5	305.5
35°	672.7	435.0	331.5	289.6	283.3
37.5°	627.4	401.9	304.7	267.4	261.9
40°	579.2	369.7	279.5	246.9	242.7
42.5°	529.3	338.6	257.7	228.4	224.6
45°	479.0	308.0	236.0	210.4	207.5
47.5°	430.0	280.0	216.7	194.0	191.5
50°	382.6	253.6	198.2	178.1	176.4
52.5°	338.2	228.8	180.2	163.5	162.6
55°	296.7	205.8	164.3	149.2	148.8
57.5°	258.6	184.0	148.4	135.4	135.4
60°	223.4	163.5	133.3	122.0	122.8
62.5°	191.9	143.8	119.0	109.4	110.2
65°	162.6	125.3	104.8	96.8	97.7
67.5°	136.2	107.7	90.9	84.2	85.1
70°	112.7	90.9	77.5	71.7	72.9
72.5°	90.9	75.4	64.1	59.5	60.8
75°	71.2	59.9	51.1	47.8	49.0
77.5°	53.6	45.7	39.4	36.5	37.7
80°	37.7	32.7	28.1	26.0	27.2
82.5°	23.5	21.0	18.4	16.8	17.6
85°	12.2	11.3	9.6	8.8	9.6
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	15.36	16.85	15.73	17.16	17.48	12.75	14.24	13.12	14.55	14.87
	3H	16.95	18.28	17.33	18.61	18.97	14.39	15.73	14.77	16.05	16.42
	4H	17.48	18.73	17.88	19.08	19.46	14.97	16.22	15.37	16.57	16.95
	6H	17.82	18.97	18.23	19.34	19.73	15.34	16.50	15.76	16.86	17.26
	8H	17.90	19.00	18.33	19.39	19.79	15.44	16.54	15.87	16.93	17.33
	12H	17.93	18.98	18.36	19.36	19.79	15.48	16.53	15.91	16.92	17.35
4H	2H	15.61	16.85	16.01	17.20	17.58	13.44	14.69	13.84	15.04	15.42
	3H	17.39	18.42	17.80	18.82	19.23	15.26	16.29	15.67	16.69	17.09
	4H	18.03	18.97	18.47	19.38	19.82	15.92	16.85	16.35	17.27	17.71
	6H	18.49	19.30	18.94	19.74	20.20	16.39	17.20	16.84	17.64	18.10
	8H	18.60	19.36	19.07	19.80	20.27	16.51	17.27	16.97	17.71	18.18
	12H	18.66	19.34	19.15	19.82	20.29	16.58	17.25	17.06	17.73	18.20
8H	4H	18.14	18.90	18.61	19.34	19.81	16.22	16.97	16.68	17.42	17.89
	6H	18.67	19.29	19.17	19.79	20.26	16.77	17.39	17.27	17.88	18.36
	8H	18.83	19.39	19.35	19.90	20.39	16.94	17.49	17.45	18.01	18.49
	12H	18.94	19.43	19.45	19.92	20.49	17.05	17.54	17.56	18.03	18.60
12H	4H	18.13	18.81	18.62	19.29	19.76	16.24	16.92	16.73	17.40	17.87
	6H	18.66	19.22	19.18	19.73	20.22	16.81	17.37	17.32	17.88	18.37
	8H	18.87	19.36	19.38	19.85	20.42	17.02	17.51	17.53	18.01	18.57