

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: P1217495

Luminaire Tested: S125DRP-S290D930-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217495
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-S290D930-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

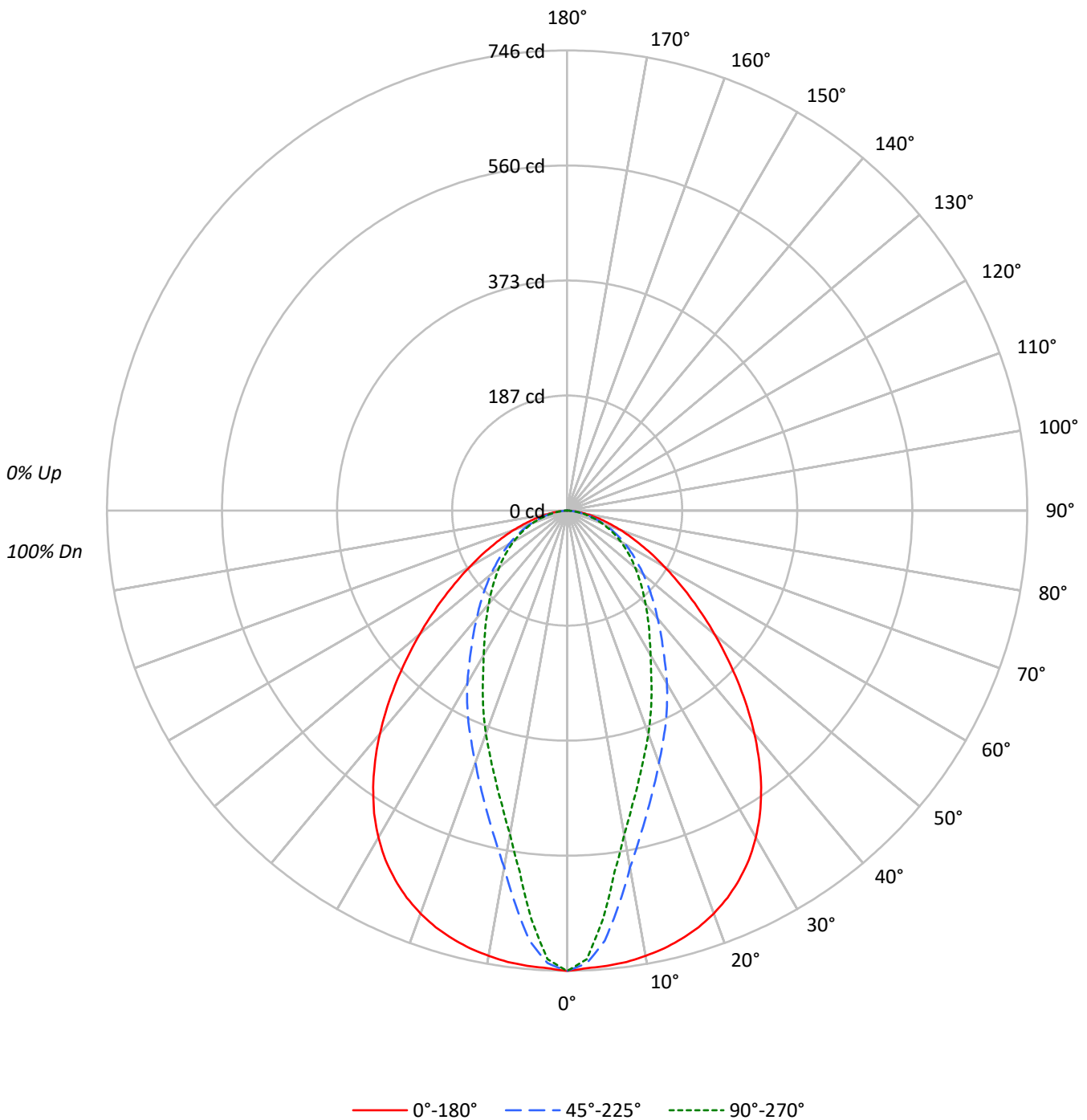
Lumens per Lamp: N/A
Luminaire Lumens: 1062.9 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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: P1217495

CATALOG NUMBER: S125DRP-S290D930-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°	5276	5276	5276
5°	5257	4966	4716
10°	5261	4217	3826
15°	5259	3686	3296
20°	5231	3273	2897
25°	5150	2953	2524
30°	4996	2642	2206
35°	4733	2333	1994
40°	4358	2103	1825
45°	3905	1924	1691
50°	3431	1777	1583
55°	2981	1650	1495
60°	2575	1537	1415
65°	2218	1429	1332
70°	1900	1306	1230
75°	1587	1139	1093
80°	1254	932	904
85°	803	641	641

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3905 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	6.0
10°-20°	151.3	14.2
20°-30°	192.2	18.1
30°-40°	195.7	18.4
40°-50°	173.1	16.3
50°-60°	135.7	12.8
60°-70°	92.5	8.7
70°-80°	47.7	4.5
80°-90°	10.7	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°	407.5	38.3
0°-40°	603.2	56.8
0°-60°	912.1	85.8
0°-90°	1062.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1062.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	746	746	746	746	746	
5°	741	737	700	672	665	70
15°	719	608	504	459	450	203
25°	660	469	379	334	324	303
35°	548	355	270	236	231	341
45°	391	251	192	172	169	301
55°	242	168	134	122	121	218
65°	133	102	85	79	80	133
75°	58	49	42	39	40	63
85°	10	9	8	7	8	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	746.3	746.3	746.3	746.3	746.3
2.5°	742.5	748.3	734.3	730.5	727.8
5°	740.8	737.0	699.8	672.5	664.6
7.5°	738.1	717.2	643.8	597.3	590.1
10°	732.9	686.1	587.4	541.9	533.0
12.5°	727.1	648.9	543.0	496.8	488.3
15°	718.6	607.9	503.7	458.9	450.4
17.5°	708.3	568.9	468.1	424.0	415.8
20°	695.3	533.4	435.0	393.3	385.1
22.5°	679.3	499.9	405.6	362.9	354.0
25°	660.2	468.8	378.6	333.5	323.6
27.5°	638.3	439.1	350.9	304.1	294.5
30°	612.0	410.0	323.6	278.1	270.3
32.5°	582.2	382.0	295.6	255.6	249.1
35°	548.4	354.7	270.3	236.1	231.0
37.5°	511.5	327.7	248.4	218.0	213.6
40°	472.2	301.4	227.9	201.3	197.8
42.5°	431.6	276.1	210.1	186.2	183.1
45°	390.6	251.1	192.4	171.5	169.1
47.5°	350.6	228.3	176.7	158.2	156.2
50°	312.0	206.7	161.6	145.2	143.9
52.5°	275.7	186.6	146.9	133.3	132.6
55°	241.9	167.8	133.9	121.6	121.3
57.5°	210.8	150.0	121.0	110.4	110.4
60°	182.1	133.3	108.7	99.4	100.1
62.5°	156.5	117.2	97.0	89.2	89.9
65°	132.6	102.2	85.4	78.9	79.6
67.5°	111.1	87.8	74.1	68.7	69.4
70°	91.9	74.1	63.2	58.4	59.5
72.5°	74.1	61.5	52.3	48.5	49.5
75°	58.1	48.9	41.7	39.0	40.0
77.5°	43.7	37.2	32.1	29.7	30.8
80°	30.8	26.7	22.9	21.2	22.2
82.5°	19.1	17.1	15.0	13.7	14.4
85°	9.9	9.2	7.9	7.2	7.9
87.5°	3.4	3.4	3.1	2.7	3.1
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	14.65	16.14	15.02	16.45	16.77	12.04	13.53	12.41	13.84	14.16
	3H	16.24	17.57	16.62	17.90	18.26	13.69	15.02	14.06	15.35	15.71
	4H	16.77	18.02	17.18	18.37	18.75	14.26	15.51	14.66	15.86	16.24
	6H	17.11	18.26	17.52	18.63	19.02	14.64	15.79	15.05	16.16	16.55
	8H	17.19	18.29	17.62	18.68	19.08	14.73	15.83	15.16	16.22	16.62
	12H	17.22	18.27	17.65	18.65	19.08	14.78	15.83	15.21	16.21	16.64
4H	2H	14.90	16.14	15.30	16.49	16.87	12.73	13.98	13.13	14.33	14.71
	3H	16.68	17.71	17.09	18.11	18.52	14.55	15.58	14.96	15.98	16.38
	4H	17.33	18.26	17.76	18.67	19.11	15.21	16.14	15.64	16.56	17.00
	6H	17.78	18.59	18.24	19.03	19.49	15.68	16.49	16.14	16.93	17.39
	8H	17.89	18.65	18.36	19.09	19.56	15.80	16.56	16.27	17.00	17.47
	12H	17.95	18.63	18.44	19.11	19.58	15.87	16.55	16.36	17.03	17.50
8H	4H	17.43	18.19	17.90	18.63	19.10	15.51	16.27	15.97	16.71	17.18
	6H	17.96	18.58	18.46	19.08	19.55	16.06	16.68	16.56	17.17	17.65
	8H	18.12	18.68	18.64	19.19	19.68	16.23	16.79	16.74	17.30	17.79
	12H	18.23	18.72	18.74	19.21	19.78	16.34	16.83	16.85	17.33	17.89
12H	4H	17.42	18.10	17.91	18.58	19.05	15.53	16.21	16.02	16.69	17.16
	6H	17.96	18.51	18.47	19.03	19.51	16.10	16.66	16.61	17.17	17.66
	8H	18.16	18.65	18.67	19.14	19.71	16.31	16.80	16.82	17.30	17.86