

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: P1217449

Luminaire Tested: S125DRP-H290D927-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217449
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-H290D927-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

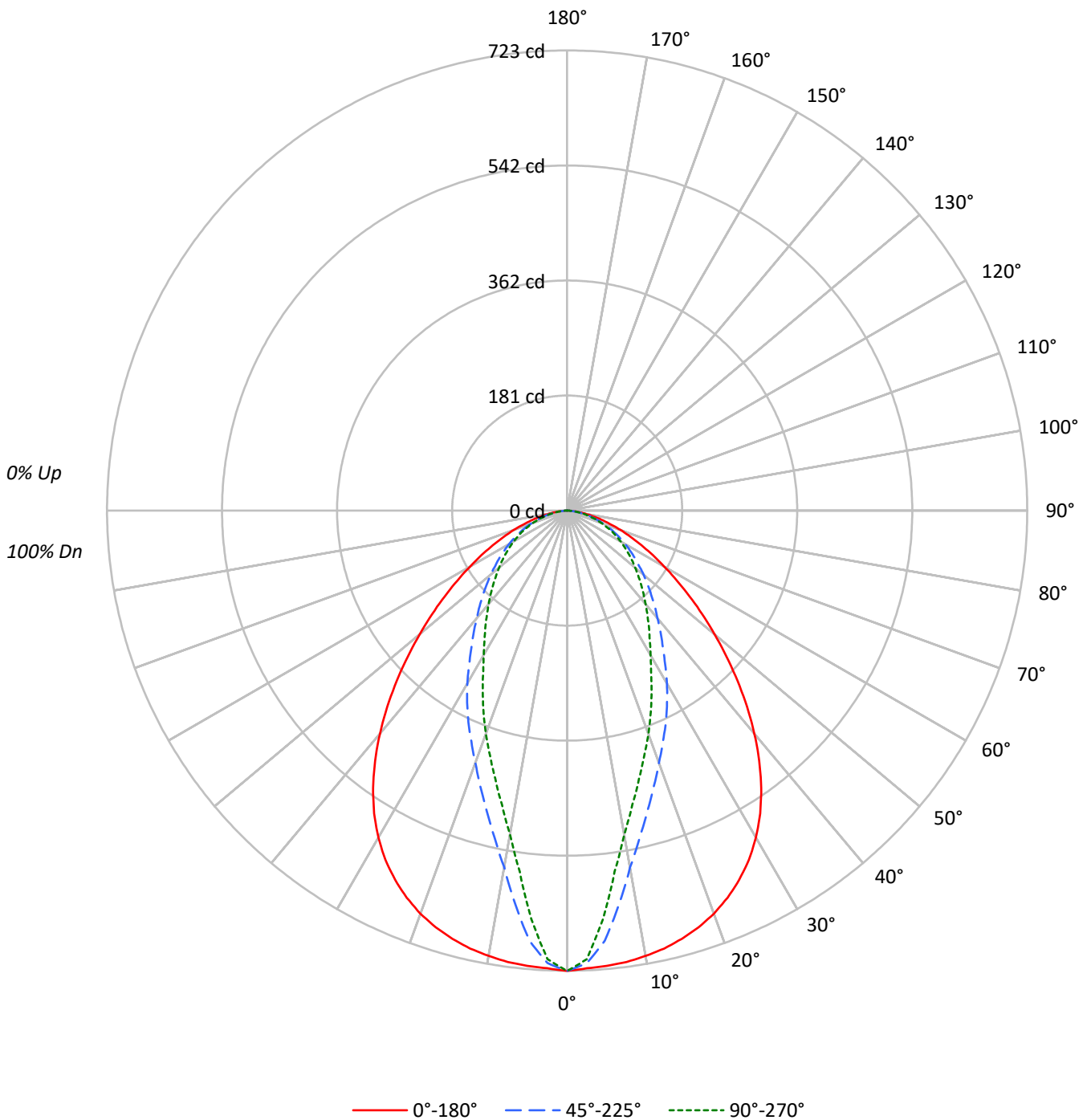
Lumens per Lamp: N/A
Luminaire Lumens: 1030.3 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): 120
Input Current (A_{in}): 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	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°	5113	5113	5113
5°	5095	4813	4571
10°	5100	4087	3709
15°	5097	3573	3195
20°	5071	3172	2808
25°	4991	2863	2446
30°	4842	2560	2139
35°	4588	2261	1932
40°	4224	2039	1770
45°	3785	1865	1639
50°	3326	1723	1533
55°	2890	1600	1449
60°	2495	1489	1371
65°	2149	1385	1291
70°	1842	1267	1191
75°	1538	1103	1057
80°	1213	904	875
85°	779	616	616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3785 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	6.0
10°-20°	146.6	14.2
20°-30°	186.3	18.1
30°-40°	189.7	18.4
40°-50°	167.8	16.3
50°-60°	131.5	12.8
60°-70°	89.7	8.7
70°-80°	46.2	4.5
80°-90°	10.3	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°	395.0	38.3
0°-40°	584.7	56.8
0°-60°	884.0	85.8
0°-90°	1030.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1030.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	723	723	723	723	723	
5°	718	714	678	652	644	68
15°	696	589	488	445	436	196
25°	640	454	367	323	314	294
35°	532	344	262	229	224	331
45°	379	243	186	166	164	292
55°	234	163	130	118	118	211
65°	128	99	83	76	77	129
75°	56	47	40	38	39	61
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°	723.3	723.3	723.3	723.3	723.3
2.5°	719.7	725.3	711.7	708.1	705.4
5°	718.0	714.4	678.3	651.8	644.2
7.5°	715.4	695.2	624.0	578.9	572.0
10°	710.4	665.0	569.3	525.3	516.7
12.5°	704.8	628.9	526.3	481.6	473.3
15°	696.5	589.2	488.2	444.8	436.5
17.5°	686.6	551.4	453.7	411.0	403.1
20°	674.0	517.0	421.6	381.2	373.3
22.5°	658.4	484.5	393.1	351.7	343.1
25°	639.9	454.4	367.0	323.2	313.6
27.5°	618.7	425.6	340.1	294.8	285.5
30°	593.2	397.4	313.6	269.6	262.0
32.5°	564.4	370.3	286.5	247.7	241.4
35°	531.6	343.8	262.0	228.9	223.9
37.5°	495.8	317.6	240.8	211.3	207.0
40°	457.7	292.1	220.9	195.1	191.8
42.5°	418.3	267.6	203.7	180.5	177.5
45°	378.6	243.4	186.5	166.3	163.9
47.5°	339.8	221.2	171.2	153.3	151.4
50°	302.4	200.4	156.7	140.8	139.4
52.5°	267.3	180.8	142.4	129.2	128.5
55°	234.5	162.6	129.8	117.9	117.6
57.5°	204.3	145.4	117.2	107.0	107.0
60°	176.5	129.2	105.3	96.4	97.0
62.5°	151.7	113.6	94.1	86.4	87.1
65°	128.5	99.0	82.8	76.5	77.2
67.5°	107.6	85.1	71.9	66.6	67.2
70°	89.1	71.9	61.3	56.6	57.6
72.5°	71.9	59.6	50.7	47.0	48.0
75°	56.3	47.4	40.4	37.8	38.7
77.5°	42.4	36.1	31.1	28.8	29.8
80°	29.8	25.8	22.2	20.5	21.5
82.5°	18.5	16.6	14.6	13.2	13.9
85°	9.6	8.9	7.6	7.0	7.6
87.5°	3.3	3.3	3.0	2.6	3.0
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	14.55	16.03	14.91	16.35	16.66	11.93	13.42	12.30	13.73	14.05
	3H	16.13	17.46	16.51	17.79	18.16	13.58	14.91	13.95	15.24	15.60
	4H	16.67	17.92	17.07	18.26	18.64	14.15	15.40	14.55	15.75	16.13
	6H	17.00	18.16	17.42	18.52	18.92	14.52	15.68	14.94	16.04	16.44
	8H	17.08	18.18	17.51	18.57	18.97	14.62	15.72	15.05	16.11	16.51
	12H	17.11	18.16	17.54	18.55	18.98	14.67	15.72	15.10	16.10	16.53
4H	2H	14.79	16.04	15.19	16.39	16.76	12.62	13.87	13.02	14.22	14.60
	3H	16.57	17.61	16.98	18.01	18.41	14.44	15.47	14.85	15.87	16.28
	4H	17.22	18.15	17.65	18.57	19.00	15.10	16.03	15.54	16.45	16.89
	6H	17.67	18.48	18.13	18.92	19.38	15.57	16.38	16.03	16.82	17.28
	8H	17.78	18.54	18.25	18.99	19.45	15.69	16.45	16.15	16.89	17.36
	12H	17.85	18.52	18.33	19.00	19.47	15.76	16.43	16.24	16.91	17.38
8H	4H	17.33	18.08	17.79	18.53	18.99	15.40	16.16	15.86	16.60	17.07
	6H	17.85	18.48	18.35	18.97	19.45	15.95	16.57	16.45	17.06	17.54
	8H	18.01	18.57	18.53	19.08	19.57	16.12	16.67	16.63	17.19	17.67
	12H	18.12	18.61	18.63	19.11	19.67	16.23	16.72	16.74	17.21	17.78
12H	4H	17.32	17.99	17.80	18.47	18.94	15.42	16.10	15.91	16.58	17.05
	6H	17.85	18.41	18.36	18.92	19.41	15.99	16.55	16.50	17.06	17.55
	8H	18.05	18.54	18.56	19.03	19.60	16.20	16.69	16.71	17.18	17.75