

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: P1217451

Luminaire Tested: S125DRP-H290D935-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217451
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-H290D935-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

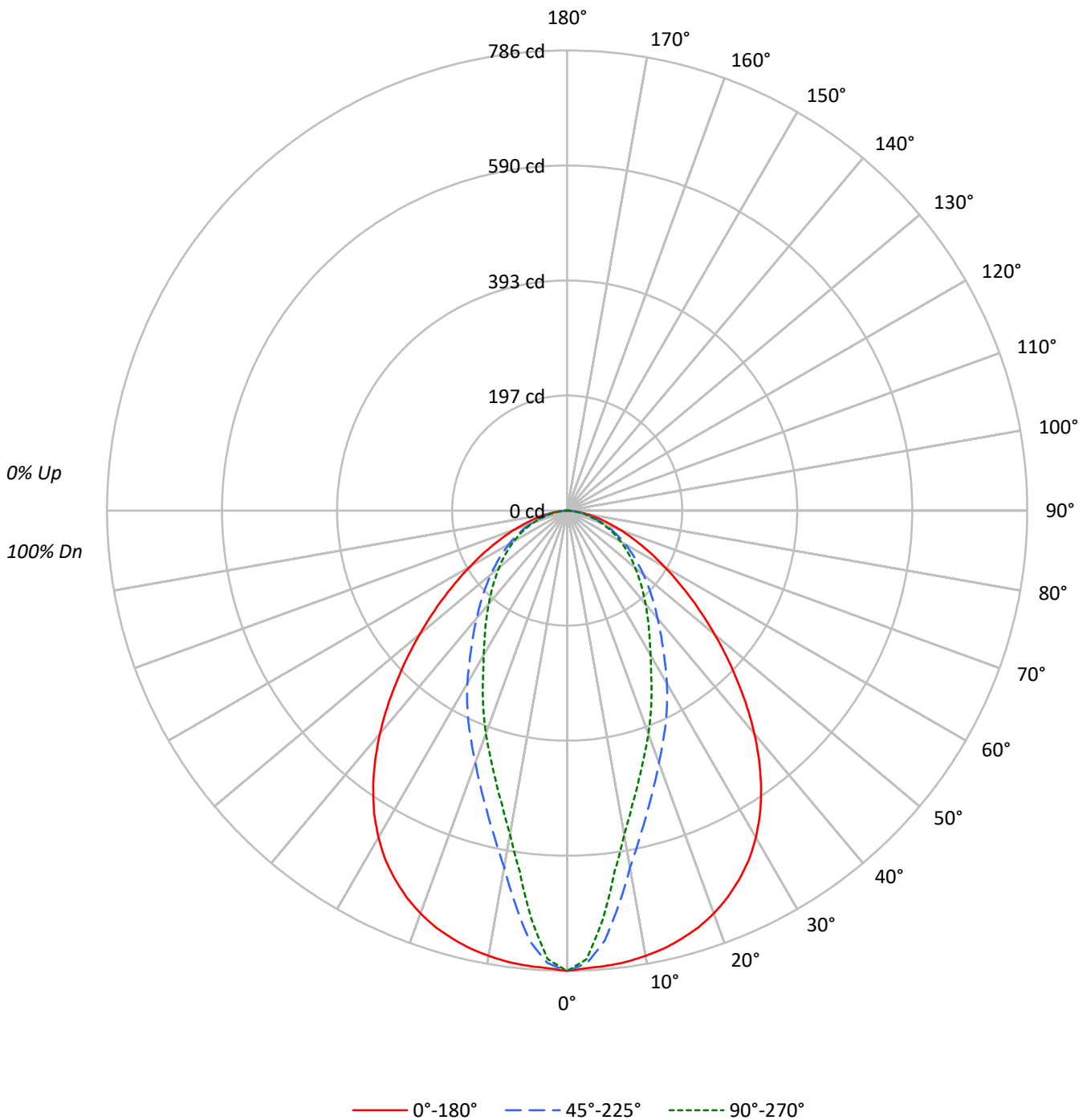
Lumens per Lamp: N/A
Luminaire Lumens: 1119.8 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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	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°	5558	5558	5558
5°	5538	5231	4968
10°	5542	4442	4031
15°	5540	3883	3472
20°	5511	3447	3052
25°	5424	3111	2659
30°	5263	2783	2324
35°	4986	2457	2100
40°	4591	2216	1923
45°	4113	2027	1782
50°	3614	1873	1666
55°	3142	1739	1575
60°	2713	1619	1492
65°	2337	1505	1403
70°	2001	1377	1294
75°	1672	1199	1150
80°	1319	981	953
85°	844	673	673

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4113 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	6.0
10°-20°	159.4	14.2
20°-30°	202.5	18.1
30°-40°	206.2	18.4
40°-50°	182.4	16.3
50°-60°	142.9	12.8
60°-70°	97.5	8.7
70°-80°	50.2	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°	429.3	38.3
0°-40°	635.5	56.8
0°-60°	960.8	85.8
0°-90°	1119.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1119.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	780	776	737	708	700	74
15°	757	640	531	483	474	214
25°	695	494	399	351	341	320
35°	578	374	285	249	243	360
45°	411	265	203	181	178	317
55°	255	177	141	128	128	229
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°	786.2	786.2	786.2	786.2	786.2
2.5°	782.2	788.3	773.6	769.6	766.7
5°	780.4	776.4	737.2	708.4	700.1
7.5°	777.5	755.6	678.2	629.2	621.7
10°	772.1	722.8	618.8	570.9	561.5
12.5°	766.0	683.6	572.0	523.4	514.4
15°	757.0	640.4	530.6	483.4	474.4
17.5°	746.2	599.3	493.2	446.7	438.1
20°	732.5	561.9	458.2	414.3	405.7
22.5°	715.6	526.6	427.3	382.3	372.9
25°	695.4	493.9	398.8	351.3	340.9
27.5°	672.4	462.6	369.7	320.4	310.3
30°	644.7	432.0	340.9	293.0	284.7
32.5°	613.4	402.4	311.4	269.3	262.4
35°	577.7	373.6	284.7	248.7	243.3
37.5°	538.9	345.2	261.7	229.7	225.0
40°	497.5	317.5	240.1	212.0	208.4
42.5°	454.6	290.9	221.4	196.2	192.9
45°	411.4	264.6	202.7	180.7	178.2
47.5°	369.3	240.5	186.1	166.7	164.5
50°	328.6	217.8	170.3	153.0	151.5
52.5°	290.5	196.5	154.8	140.4	139.7
55°	254.9	176.7	141.1	128.1	127.8
57.5°	222.1	158.0	127.4	116.3	116.3
60°	191.9	140.4	114.5	104.7	105.5
62.5°	164.9	123.5	102.2	94.0	94.7
65°	139.7	107.6	90.0	83.2	83.9
67.5°	117.0	92.5	78.1	72.4	73.1
70°	96.8	78.1	66.6	61.6	62.6
72.5°	78.1	64.8	55.1	51.1	52.2
75°	61.2	51.5	43.9	41.0	42.1
77.5°	46.1	39.2	33.8	31.3	32.4
80°	32.4	28.1	24.1	22.3	23.4
82.5°	20.2	18.0	15.8	14.4	15.1
85°	10.4	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	14.83	16.32	15.20	16.63	16.95	12.22	13.71	12.59	14.02	14.34
	3H	16.42	17.75	16.80	18.08	18.44	13.87	15.20	14.24	15.53	15.89
	4H	16.96	18.20	17.36	18.55	18.93	14.44	15.69	14.84	16.04	16.42
	6H	17.29	18.45	17.71	18.81	19.21	14.82	15.97	15.23	16.34	16.73
	8H	17.37	18.47	17.80	18.86	19.26	14.91	16.01	15.34	16.40	16.80
	12H	17.40	18.45	17.83	18.84	19.27	14.96	16.01	15.39	16.39	16.82
4H	2H	15.08	16.33	15.48	16.67	17.05	12.91	14.16	13.31	14.51	14.89
	3H	16.86	17.90	17.27	18.30	18.70	14.73	15.76	15.14	16.17	16.57
	4H	17.51	18.44	17.94	18.85	19.29	15.39	16.32	15.82	16.74	17.18
	6H	17.96	18.77	18.42	19.21	19.67	15.86	16.67	16.32	17.11	17.57
	8H	18.07	18.83	18.54	19.28	19.74	15.98	16.74	16.45	17.18	17.65
	12H	18.14	18.81	18.62	19.29	19.76	16.05	16.73	16.53	17.20	17.68
8H	4H	17.61	18.37	18.08	18.81	19.28	15.69	16.45	16.15	16.89	17.36
	6H	18.14	18.77	18.64	19.26	19.74	16.24	16.86	16.74	17.35	17.83
	8H	18.30	18.86	18.82	19.37	19.86	16.41	16.97	16.92	17.48	17.96
	12H	18.41	18.90	18.92	19.39	19.96	16.52	17.01	17.03	17.51	18.07
12H	4H	17.60	18.28	18.09	18.76	19.23	15.71	16.39	16.20	16.87	17.34
	6H	18.14	18.70	18.65	19.21	19.70	16.28	16.84	16.79	17.35	17.84
	8H	18.34	18.83	18.85	19.32	19.89	16.49	16.98	17.00	17.48	18.04