

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: P1217453

Luminaire Tested: S125DRP-H290D950-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217453
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-H290D950-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

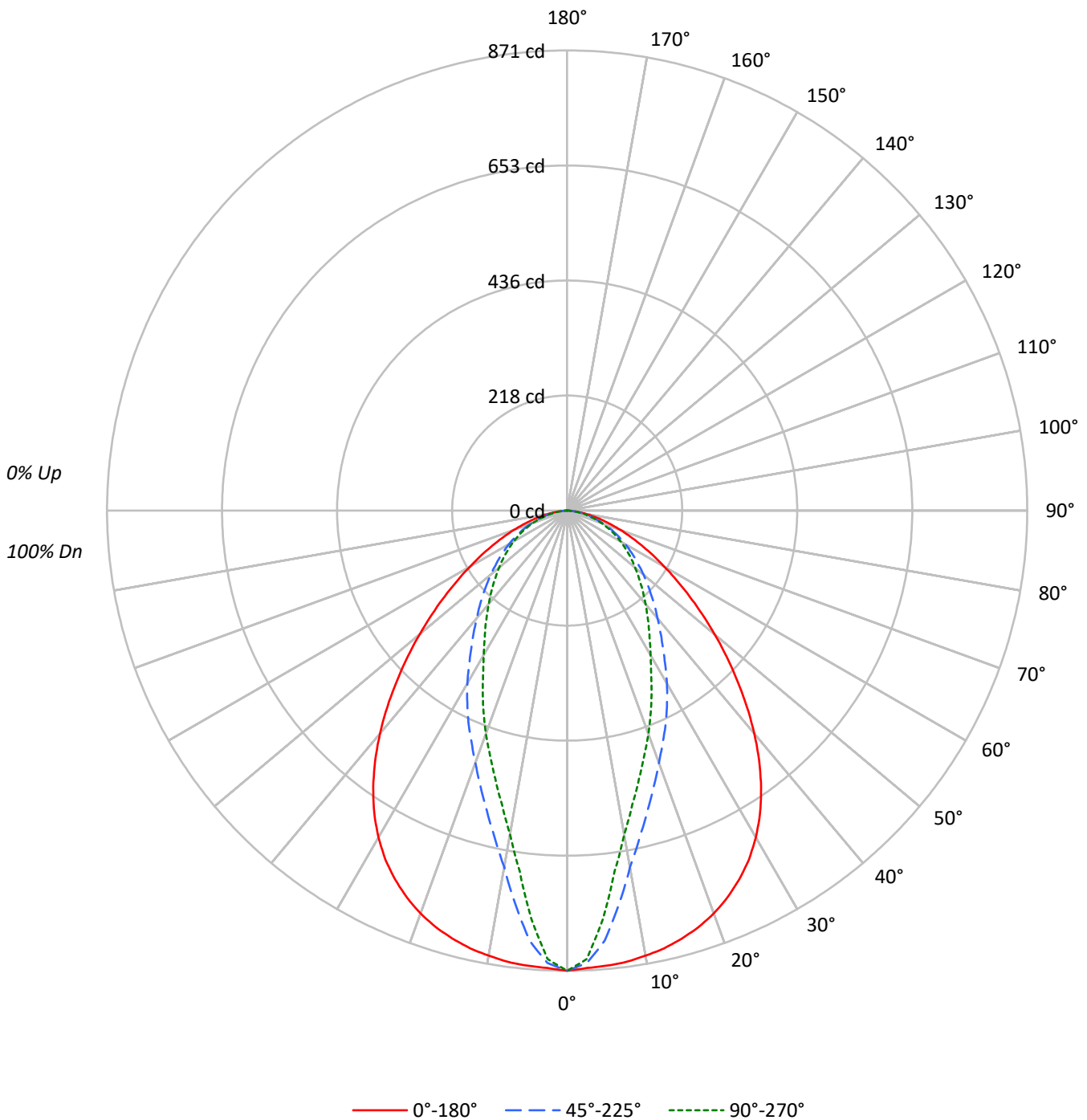
Lumens per Lamp: N/A
Luminaire Lumens: 1240.7 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): 120
Input Current (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

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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	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°	6158	6158	6158
5°	6136	5796	5505
10°	6141	4922	4466
15°	6139	4303	3847
20°	6106	3819	3382
25°	6011	3447	2946
30°	5831	3083	2575
35°	5524	2723	2327
40°	5087	2455	2131
45°	4558	2245	1974
50°	4004	2075	1847
55°	3481	1926	1745
60°	3006	1793	1653
65°	2589	1668	1554
70°	2218	1525	1434
75°	1852	1330	1276
80°	1462	1087	1054
85°	941	746	746

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4558 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	6.0
10°-20°	176.6	14.2
20°-30°	224.3	18.1
30°-40°	228.5	18.4
40°-50°	202.1	16.3
50°-60°	158.4	12.8
60°-70°	108.0	8.7
70°-80°	55.6	4.5
80°-90°	12.4	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°	475.7	38.3
0°-40°	704.1	56.8
0°-60°	1064.6	85.8
0°-90°	1240.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1240.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	871	871	871	871	871	
5°	865	860	817	785	776	82
15°	839	710	588	536	526	237
25°	771	547	442	389	378	354
35°	640	414	316	276	270	398
45°	456	293	225	200	197	352
55°	282	196	156	142	142	254
65°	155	119	100	92	93	155
75°	68	57	49	46	47	73
85°	12	11	9	8	9	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	871.1	871.1	871.1	871.1	871.1
2.5°	866.7	873.5	857.1	852.7	849.5
5°	864.7	860.3	816.8	784.9	775.8
7.5°	861.5	837.2	751.4	697.2	688.8
10°	855.5	800.9	685.6	632.6	622.2
12.5°	848.7	757.4	633.8	579.9	570.0
15°	838.8	709.5	587.9	535.6	525.7
17.5°	826.8	664.1	546.4	495.0	485.4
20°	811.7	622.6	507.7	459.1	449.5
22.5°	792.9	583.5	473.4	423.6	413.2
25°	770.6	547.2	441.9	389.3	377.7
27.5°	745.0	512.5	409.6	355.0	343.8
30°	714.3	478.6	377.7	324.7	315.5
32.5°	679.6	445.9	345.0	298.3	290.8
35°	640.1	414.0	315.5	275.6	269.6
37.5°	597.1	382.5	290.0	254.5	249.3
40°	551.2	351.8	266.0	234.9	230.9
42.5°	503.7	322.3	245.3	217.4	213.8
45°	455.9	293.2	224.6	200.2	197.4
47.5°	409.2	266.4	206.2	184.7	182.3
50°	364.1	241.3	188.7	169.5	167.9
52.5°	321.9	217.8	171.5	155.5	154.8
55°	282.4	195.8	156.3	142.0	141.6
57.5°	246.1	175.1	141.2	128.8	128.8
60°	212.6	155.5	126.8	116.1	116.9
62.5°	182.7	136.8	113.3	104.1	104.9
65°	154.8	119.3	99.7	92.1	92.9
67.5°	129.6	102.5	86.5	80.2	81.0
70°	107.3	86.5	73.8	68.2	69.4
72.5°	86.5	71.8	61.0	56.6	57.8
75°	67.8	57.0	48.7	45.5	46.7
77.5°	51.1	43.5	37.5	34.7	35.9
80°	35.9	31.1	26.7	24.7	25.9
82.5°	22.3	19.9	17.5	16.0	16.8
85°	11.6	10.8	9.2	8.4	9.2
87.5°	4.0	4.0	3.6	3.2	3.6
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	15.19	16.68	15.56	16.99	17.31	12.58	14.06	12.94	14.38	14.69
	3H	16.78	18.11	17.16	18.44	18.80	14.22	15.55	14.60	15.88	16.24
	4H	17.31	18.56	17.71	18.91	19.29	14.80	16.05	15.20	16.39	16.77
	6H	17.65	18.80	18.06	19.17	19.56	15.17	16.32	15.58	16.69	17.08
	8H	17.73	18.83	18.16	19.22	19.62	15.27	16.36	15.69	16.75	17.16
	12H	17.76	18.81	18.19	19.19	19.62	15.31	16.36	15.74	16.75	17.17
4H	2H	15.43	16.68	15.83	17.03	17.41	13.26	14.51	13.66	14.86	15.24
	3H	17.22	18.25	17.63	18.65	19.05	15.08	16.12	15.49	16.52	16.92
	4H	17.86	18.79	18.29	19.21	19.65	15.75	16.68	16.18	17.10	17.54
	6H	18.32	19.13	18.77	19.57	20.03	16.21	17.02	16.67	17.47	17.93
	8H	18.43	19.19	18.89	19.63	20.10	16.34	17.09	16.80	17.54	18.01
	12H	18.49	19.17	18.97	19.64	20.12	16.41	17.08	16.89	17.56	18.03
8H	4H	17.97	18.73	18.43	19.17	19.64	16.05	16.80	16.51	17.25	17.71
	6H	18.50	19.12	19.00	19.61	20.09	16.60	17.22	17.09	17.71	18.19
	8H	18.66	19.22	19.17	19.73	20.22	16.76	17.32	17.28	17.83	18.32
	12H	18.77	19.26	19.28	19.75	20.32	16.88	17.37	17.39	17.86	18.43
12H	4H	17.96	18.63	18.44	19.11	19.59	16.07	16.74	16.55	17.22	17.69
	6H	18.49	19.05	19.01	19.56	20.05	16.63	17.19	17.15	17.70	18.19
	8H	18.69	19.18	19.20	19.68	20.24	16.85	17.34	17.36	17.83	18.40