

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: P1217452

Luminaire Tested: S125DRP-H290D940-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217452
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-H290D940-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

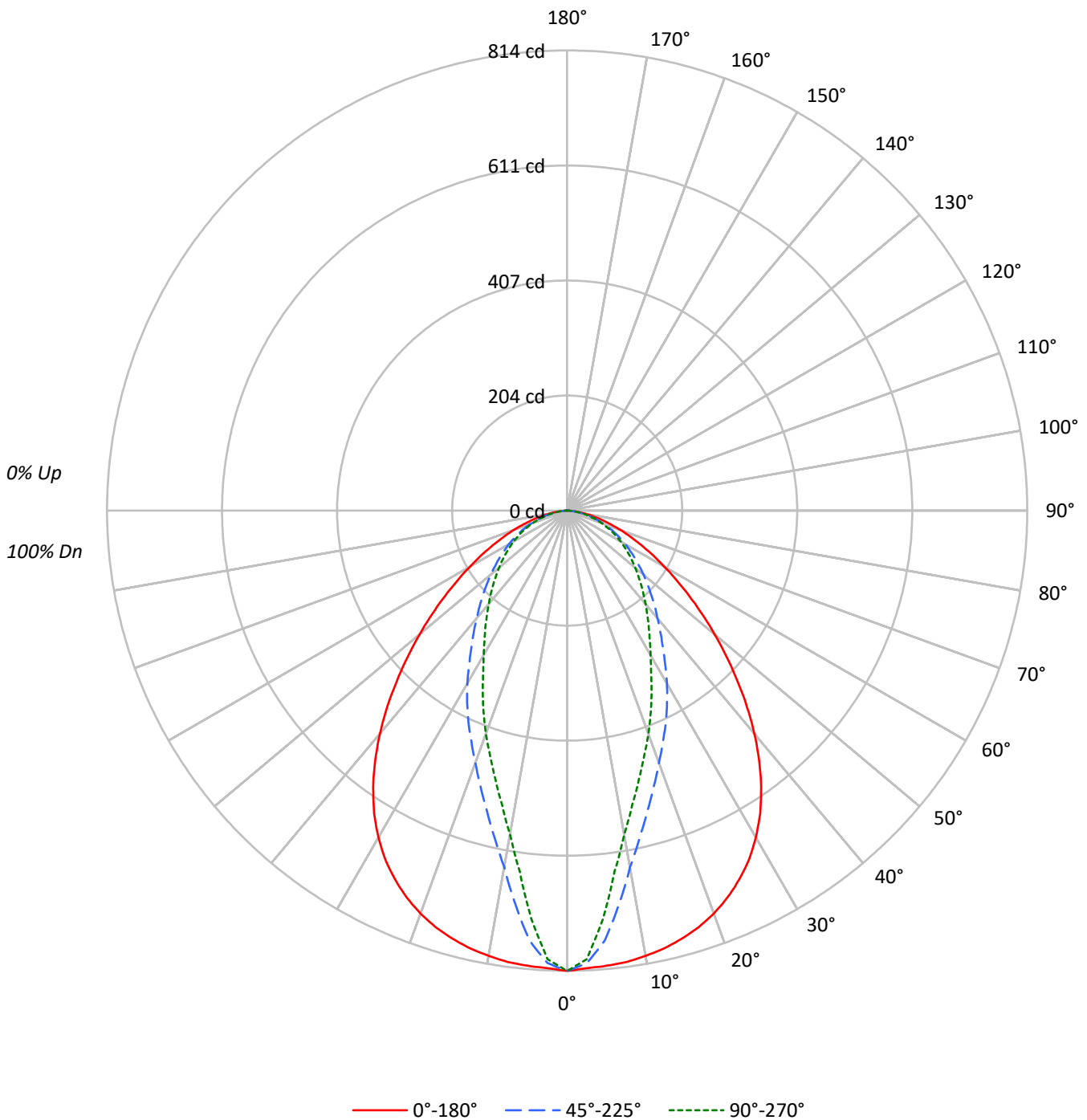
Lumens per Lamp: N/A
Luminaire Lumens: 1159.7 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): 120
Input Current (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	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°	5756	5756	5756
5°	5735	5418	5146
10°	5741	4600	4175
15°	5738	4022	3596
20°	5708	3570	3160
25°	5618	3222	2753
30°	5450	2882	2407
35°	5164	2545	2175
40°	4754	2295	1992
45°	4260	2098	1845
50°	3744	1939	1727
55°	3253	1801	1631
60°	2809	1677	1544
65°	2419	1559	1454
70°	2073	1426	1341
75°	1732	1243	1191
80°	1368	1018	985
85°	876	698	698

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4260 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	6.0
10°-20°	165.0	14.2
20°-30°	209.7	18.1
30°-40°	213.6	18.4
40°-50°	188.9	16.3
50°-60°	148.0	12.8
60°-70°	101.0	8.7
70°-80°	52.0	4.5
80°-90°	11.6	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°	444.6	38.3
0°-40°	658.2	56.8
0°-60°	995.1	85.8
0°-90°	1159.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1159.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	808	804	764	734	725	77
15°	784	663	550	501	491	221
25°	720	512	413	364	353	331
35°	598	387	295	258	252	372
45°	426	274	210	187	184	329
55°	264	183	146	133	132	238
65°	145	112	93	86	87	145
75°	63	53	46	42	44	68
85°	11	10	9	8	9	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	814.2	814.2	814.2	814.2	814.2
2.5°	810.1	816.4	801.2	797.1	794.1
5°	808.2	804.1	763.5	733.7	725.1
7.5°	805.3	782.5	702.4	651.7	643.8
10°	799.7	748.6	640.8	591.3	581.6
12.5°	793.3	708.0	592.4	542.1	532.7
15°	784.0	663.2	549.5	500.7	491.4
17.5°	772.8	620.7	510.7	462.6	453.7
20°	758.7	581.9	474.6	429.1	420.1
22.5°	741.1	545.4	442.5	395.9	386.2
25°	720.3	511.5	413.1	363.9	353.0
27.5°	696.4	479.1	382.9	331.8	321.4
30°	667.7	447.4	353.0	303.5	294.9
32.5°	635.3	416.8	322.5	278.9	271.8
35°	598.4	387.0	294.9	257.6	252.0
37.5°	558.1	357.5	271.0	237.8	233.0
40°	515.2	328.8	248.7	219.6	215.9
42.5°	470.9	301.2	229.3	203.2	199.8
45°	426.1	274.0	209.9	187.1	184.5
47.5°	382.5	249.0	192.7	172.6	170.4
50°	340.4	225.5	176.3	158.4	157.0
52.5°	300.9	203.6	160.3	145.4	144.6
55°	263.9	183.0	146.1	132.7	132.3
57.5°	230.0	163.7	132.0	120.4	120.4
60°	198.7	145.4	118.6	108.5	109.2
62.5°	170.7	127.9	105.9	97.3	98.0
65°	144.6	111.5	93.2	86.1	86.9
67.5°	121.2	95.8	80.9	74.9	75.7
70°	100.3	80.9	69.0	63.7	64.9
72.5°	80.9	67.1	57.0	52.9	54.1
75°	63.4	53.3	45.5	42.5	43.6
77.5°	47.7	40.6	35.0	32.4	33.6
80°	33.6	29.1	25.0	23.1	24.2
82.5°	20.9	18.6	16.4	14.9	15.7
85°	10.8	10.1	8.6	7.8	8.6
87.5°	3.7	3.7	3.4	3.0	3.4
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	14.96	16.44	15.32	16.76	17.07	12.34	13.83	12.71	14.14	14.46
	3H	16.54	17.88	16.92	18.21	18.57	13.99	15.32	14.36	15.65	16.01
	4H	17.08	18.33	17.48	18.68	19.06	14.56	15.81	14.96	16.16	16.54
	6H	17.42	18.57	17.83	18.94	19.33	14.94	16.09	15.35	16.46	16.85
	8H	17.50	18.59	17.92	18.98	19.38	15.03	16.13	15.46	16.52	16.92
	12H	17.53	18.58	17.96	18.96	19.39	15.08	16.13	15.51	16.51	16.94
4H	2H	15.20	16.45	15.60	16.80	17.18	13.03	14.28	13.43	14.63	15.01
	3H	16.98	18.02	17.39	18.42	18.82	14.85	15.88	15.26	16.28	16.69
	4H	17.63	18.56	18.06	18.98	19.42	15.51	16.44	15.95	16.86	17.30
	6H	18.08	18.89	18.54	19.33	19.80	15.98	16.79	16.44	17.23	17.69
	8H	18.20	18.95	18.66	19.40	19.87	16.10	16.86	16.57	17.30	17.77
	12H	18.26	18.93	18.74	19.41	19.88	16.17	16.85	16.65	17.33	17.80
8H	4H	17.74	18.49	18.20	18.94	19.40	15.81	16.57	16.27	17.01	17.48
	6H	18.27	18.89	18.76	19.38	19.86	16.36	16.98	16.86	17.47	17.95
	8H	18.43	18.98	18.94	19.49	19.98	16.53	17.09	17.04	17.60	18.09
	12H	18.53	19.02	19.04	19.52	20.08	16.64	17.13	17.15	17.63	18.19
12H	4H	17.73	18.40	18.21	18.88	19.35	15.83	16.51	16.32	16.99	17.46
	6H	18.26	18.82	18.77	19.33	19.82	16.40	16.96	16.91	17.47	17.96
	8H	18.46	18.95	18.97	19.44	20.01	16.61	17.10	17.12	17.60	18.16