

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: P1217497

Luminaire Tested: S125DRP-S290D940-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217497
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-S290D940-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

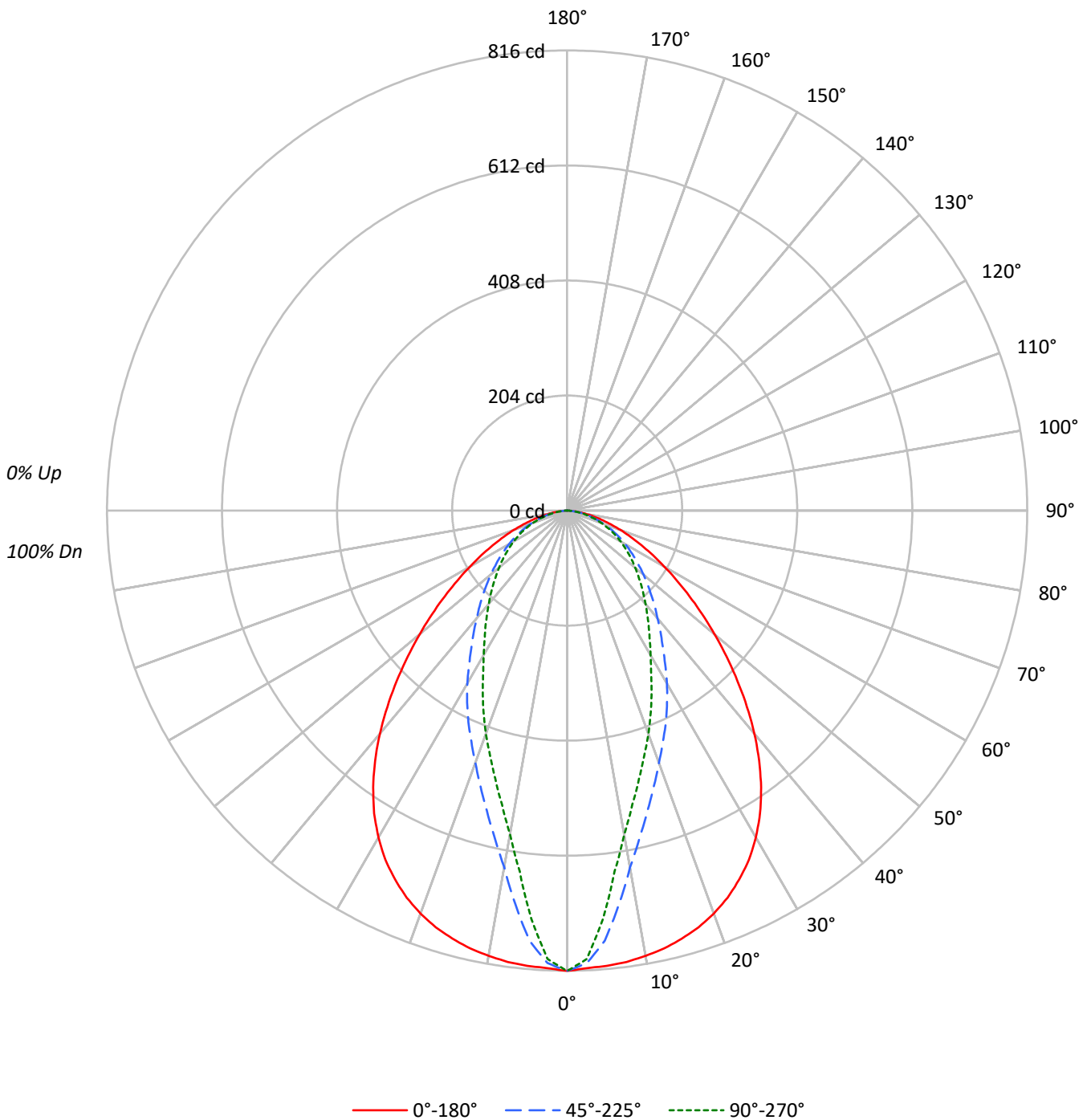
Lumens per Lamp: N/A
Luminaire Lumens: 1162.5 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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

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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	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				
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°	5770	5770	5770
5°	5749	5432	5158
10°	5754	4611	4185
15°	5752	4032	3605
20°	5721	3579	3169
25°	5632	3230	2760
30°	5463	2889	2413
35°	5176	2551	2180
40°	4766	2301	1997
45°	4271	2103	1850
50°	3752	1944	1730
55°	3261	1806	1636
60°	2816	1680	1548
65°	2425	1562	1457
70°	2077	1428	1344
75°	1734	1246	1194
80°	1368	1018	989
85°	876	698	698

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4271 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	6.0
10°-20°	165.4	14.2
20°-30°	210.2	18.1
30°-40°	214.1	18.4
40°-50°	189.4	16.3
50°-60°	148.4	12.8
60°-70°	101.2	8.7
70°-80°	52.1	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°	445.7	38.3
0°-40°	659.8	56.8
0°-60°	997.5	85.8
0°-90°	1162.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1162.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	810	806	765	736	727	77
15°	786	665	551	502	493	222
25°	722	513	414	365	354	332
35°	600	388	296	258	253	373
45°	427	275	210	188	185	329
55°	265	184	146	133	133	238
65°	145	112	93	86	87	145
75°	64	53	46	43	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°	816.2	816.2	816.2	816.2	816.2
2.5°	812.1	818.4	803.1	799.0	796.0
5°	810.2	806.1	765.4	735.5	726.9
7.5°	807.2	784.4	704.1	653.3	645.4
10°	801.6	750.4	642.4	592.7	583.0
12.5°	795.3	709.7	593.8	543.4	534.0
15°	785.9	664.8	550.9	501.9	492.6
17.5°	774.7	622.2	512.0	463.8	454.8
20°	760.5	583.4	475.7	430.2	421.2
22.5°	743.0	546.8	443.6	396.9	387.2
25°	722.0	512.7	414.1	364.8	353.9
27.5°	698.1	480.2	383.8	332.6	322.1
30°	669.3	448.5	353.9	304.2	295.6
32.5°	636.8	417.8	323.3	279.5	272.4
35°	599.8	387.9	295.6	258.2	252.6
37.5°	559.5	358.4	271.7	238.4	233.6
40°	516.5	329.6	249.3	220.1	216.4
42.5°	472.0	302.0	229.8	203.7	200.3
45°	427.2	274.7	210.4	187.6	185.0
47.5°	383.4	249.6	193.2	173.0	170.8
50°	341.2	226.1	176.8	158.8	157.3
52.5°	301.6	204.1	160.7	145.8	145.0
55°	264.6	183.5	146.5	133.0	132.7
57.5°	230.6	164.1	132.3	120.7	120.7
60°	199.2	145.8	118.8	108.8	109.5
62.5°	171.2	128.2	106.1	97.5	98.3
65°	145.0	111.7	93.4	86.3	87.1
67.5°	121.5	96.0	81.1	75.1	75.9
70°	100.5	81.1	69.1	63.9	65.0
72.5°	81.1	67.3	57.2	53.1	54.2
75°	63.5	53.4	45.6	42.6	43.7
77.5°	47.8	40.7	35.1	32.5	33.6
80°	33.6	29.2	25.0	23.2	24.3
82.5°	20.9	18.7	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	14.97	16.45	15.33	16.77	17.08	12.35	13.84	12.72	14.15	14.47
	3H	16.55	17.89	16.93	18.21	18.58	13.99	15.33	14.37	15.66	16.02
	4H	17.09	18.34	17.49	18.68	19.06	14.57	15.82	14.97	16.17	16.55
	6H	17.42	18.58	17.84	18.94	19.34	14.94	16.10	15.36	16.46	16.86
	8H	17.50	18.60	17.93	18.99	19.39	15.04	16.14	15.47	16.53	16.93
	12H	17.53	18.58	17.96	18.97	19.39	15.09	16.14	15.52	16.52	16.95
4H	2H	15.21	16.46	15.61	16.81	17.19	13.04	14.29	13.44	14.64	15.01
	3H	16.99	18.03	17.40	18.43	18.83	14.86	15.89	15.27	16.29	16.69
	4H	17.64	18.57	18.07	18.98	19.42	15.52	16.45	15.95	16.87	17.31
	6H	18.09	18.90	18.55	19.34	19.80	15.99	16.80	16.45	17.24	17.70
	8H	18.20	18.96	18.67	19.40	19.87	16.11	16.87	16.57	17.31	17.78
	12H	18.26	18.94	18.75	19.42	19.89	16.18	16.85	16.66	17.33	17.80
8H	4H	17.74	18.50	18.21	18.94	19.41	15.82	16.57	16.28	17.02	17.49
	6H	18.27	18.90	18.77	19.39	19.87	16.37	16.99	16.87	17.48	17.96
	8H	18.43	18.99	18.95	19.50	19.99	16.54	17.09	17.05	17.61	18.09
	12H	18.54	19.03	19.05	19.52	20.09	16.65	17.14	17.16	17.63	18.20
12H	4H	17.74	18.41	18.22	18.89	19.36	15.84	16.52	16.33	17.00	17.47
	6H	18.27	18.83	18.78	19.34	19.83	16.41	16.97	16.92	17.48	17.97
	8H	18.47	18.96	18.98	19.45	20.02	16.62	17.11	17.13	17.60	18.17