

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: P1217493

Luminaire Tested: S125DRP-S290D850-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217493
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-S290D850-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

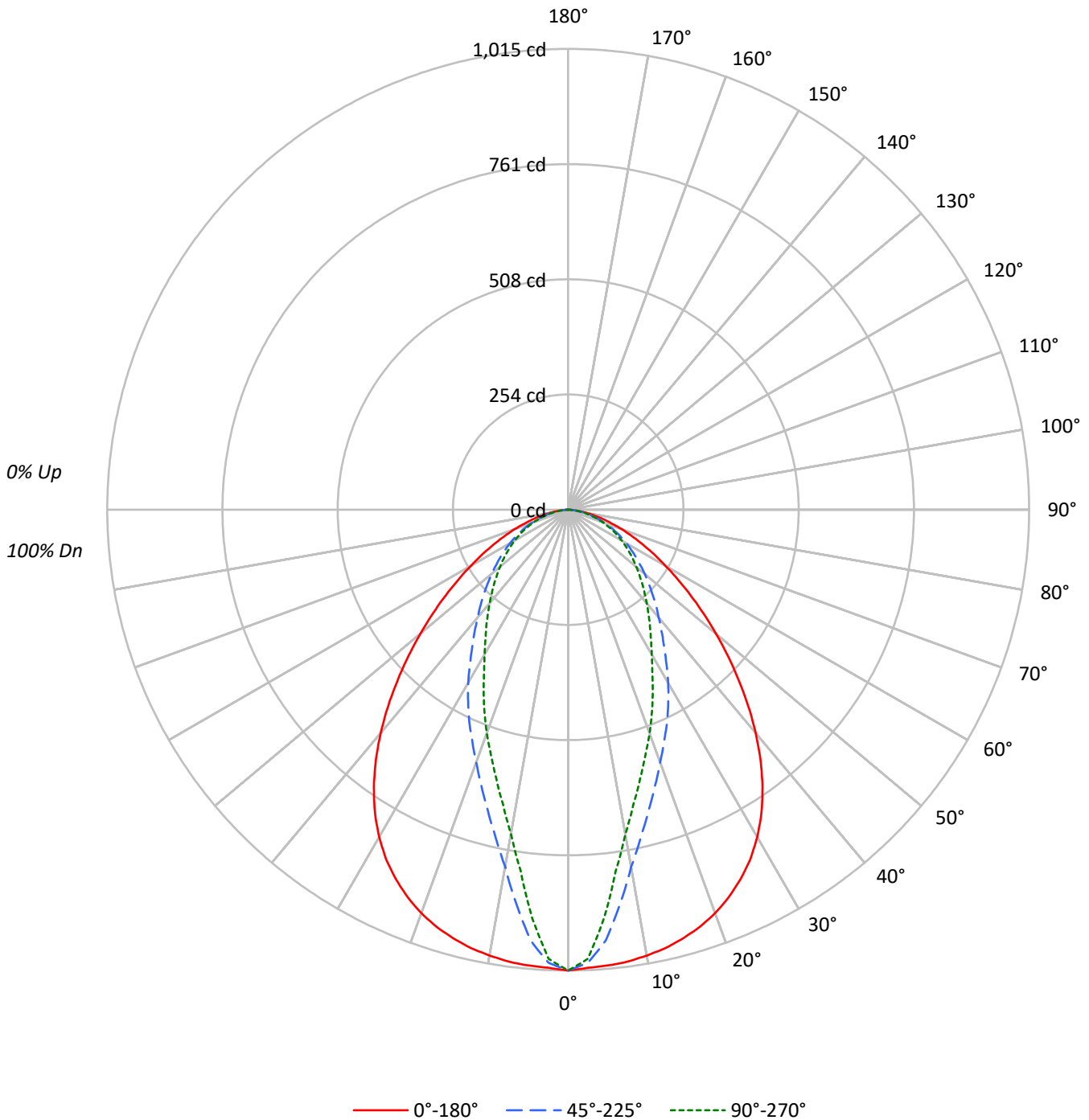
Lumens per Lamp: N/A
Luminaire Lumens: 1445.8 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7176	7176	7176
5°	7151	6755	6415
10°	7157	5736	5205
15°	7153	5014	4483
20°	7115	4451	3941
25°	7005	4017	3434
30°	6795	3593	3001
35°	6438	3172	2712
40°	5927	2861	2483
45°	5312	2616	2300
50°	4668	2417	2152
55°	4056	2246	2034
60°	3502	2090	1926
65°	3016	1944	1812
70°	2584	1778	1672
75°	2158	1549	1486
80°	1702	1266	1229
85°	1095	868	868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5312 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	6.0
10°-20°	205.8	14.2
20°-30°	261.4	18.1
30°-40°	266.2	18.4
40°-50°	235.5	16.3
50°-60°	184.6	12.8
60°-70°	125.9	8.7
70°-80°	64.8	4.5
80°-90°	14.5	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°	554.3	38.3
0°-40°	820.5	56.8
0°-60°	1240.6	85.8
0°-90°	1445.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1445.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1015	1015	1015	1015	1015	
5°	1008	1002	952	915	904	96
15°	977	827	685	624	613	276
25°	898	638	515	454	440	413
35°	746	482	368	321	314	464
45°	531	342	262	233	230	410
55°	329	228	182	166	165	296
65°	180	139	116	107	108	181
75°	79	66	57	53	54	85
85°	14	12	11	10	11	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1015.1	1015.1	1015.1	1015.1	1015.1
2.5°	1010.0	1017.9	998.8	993.7	990.0
5°	1007.7	1002.5	951.9	914.7	904.0
7.5°	1003.9	975.6	875.7	812.4	802.7
10°	997.0	933.3	799.0	737.2	725.1
12.5°	989.1	882.6	738.5	675.8	664.2
15°	977.4	826.9	685.1	624.2	612.6
17.5°	963.5	773.9	636.8	576.8	565.6
20°	945.8	725.5	591.7	535.0	523.8
22.5°	924.0	680.0	551.7	493.6	481.5
25°	898.0	637.7	515.0	453.6	440.2
27.5°	868.2	597.3	477.3	413.7	400.6
30°	832.4	557.7	440.2	378.3	367.6
32.5°	792.0	519.6	402.0	347.7	338.8
35°	746.0	482.4	367.6	321.2	314.2
37.5°	695.8	445.7	337.9	296.5	290.5
40°	642.3	409.9	310.0	273.8	269.1
42.5°	587.0	375.5	285.8	253.3	249.1
45°	531.3	341.6	261.7	233.3	230.1
47.5°	476.9	310.5	240.3	215.2	212.4
50°	424.4	281.2	219.8	197.5	195.7
52.5°	375.1	253.8	199.9	181.3	180.3
55°	329.1	228.2	182.2	165.5	165.0
57.5°	286.8	204.0	164.5	150.1	150.1
60°	247.7	181.3	147.8	135.3	136.2
62.5°	212.9	159.4	132.0	121.3	122.2
65°	180.3	139.0	116.2	107.4	108.3
67.5°	151.1	119.5	100.9	93.4	94.4
70°	125.0	100.9	86.0	79.5	80.9
72.5°	100.9	83.7	71.1	66.0	67.4
75°	79.0	66.5	56.7	53.0	54.4
77.5°	59.5	50.7	43.7	40.4	41.8
80°	41.8	36.3	31.1	28.8	30.2
82.5°	26.0	23.2	20.5	18.6	19.5
85°	13.5	12.5	10.7	9.8	10.7
87.5°	4.6	4.6	4.2	3.7	4.2
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	15.72	17.21	16.09	17.52	17.84	13.11	14.59	13.47	14.91	15.22
	3H	17.31	18.64	17.69	18.97	19.33	14.75	16.09	15.13	16.41	16.78
	4H	17.84	19.09	18.24	19.44	19.82	15.33	16.58	15.73	16.93	17.31
	6H	18.18	19.33	18.59	19.70	20.09	15.70	16.85	16.11	17.22	17.61
	8H	18.26	19.36	18.69	19.75	20.15	15.80	16.90	16.22	17.28	17.69
	12H	18.29	19.34	18.72	19.72	20.15	15.84	16.89	16.27	17.28	17.70
4H	2H	15.96	17.21	16.36	17.56	17.94	13.80	15.04	14.20	15.39	15.77
	3H	17.75	18.78	18.16	19.18	19.59	15.61	16.65	16.03	17.05	17.45
	4H	18.40	19.33	18.83	19.74	20.18	16.28	17.21	16.71	17.63	18.07
	6H	18.85	19.66	19.31	20.10	20.56	16.75	17.55	17.20	18.00	18.46
	8H	18.96	19.72	19.43	20.16	20.63	16.87	17.62	17.33	18.07	18.54
	12H	19.02	19.70	19.51	20.18	20.65	16.94	17.61	17.42	18.09	18.56
8H	4H	18.50	19.26	18.97	19.70	20.17	16.58	17.33	17.04	17.78	18.25
	6H	19.03	19.65	19.53	20.15	20.62	17.13	17.75	17.62	18.24	18.72
	8H	19.19	19.75	19.71	20.26	20.75	17.30	17.85	17.81	18.36	18.85
	12H	19.30	19.79	19.81	20.28	20.85	17.41	17.90	17.92	18.39	18.96
12H	4H	18.49	19.17	18.98	19.65	20.12	16.60	17.28	17.08	17.75	18.23
	6H	19.03	19.58	19.54	20.10	20.58	17.17	17.72	17.68	18.24	18.72
	8H	19.23	19.72	19.74	20.21	20.78	17.38	17.87	17.89	18.36	18.93