

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: P1217490

Luminaire Tested: S125DRP-S290D830-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217490
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-S290D830-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

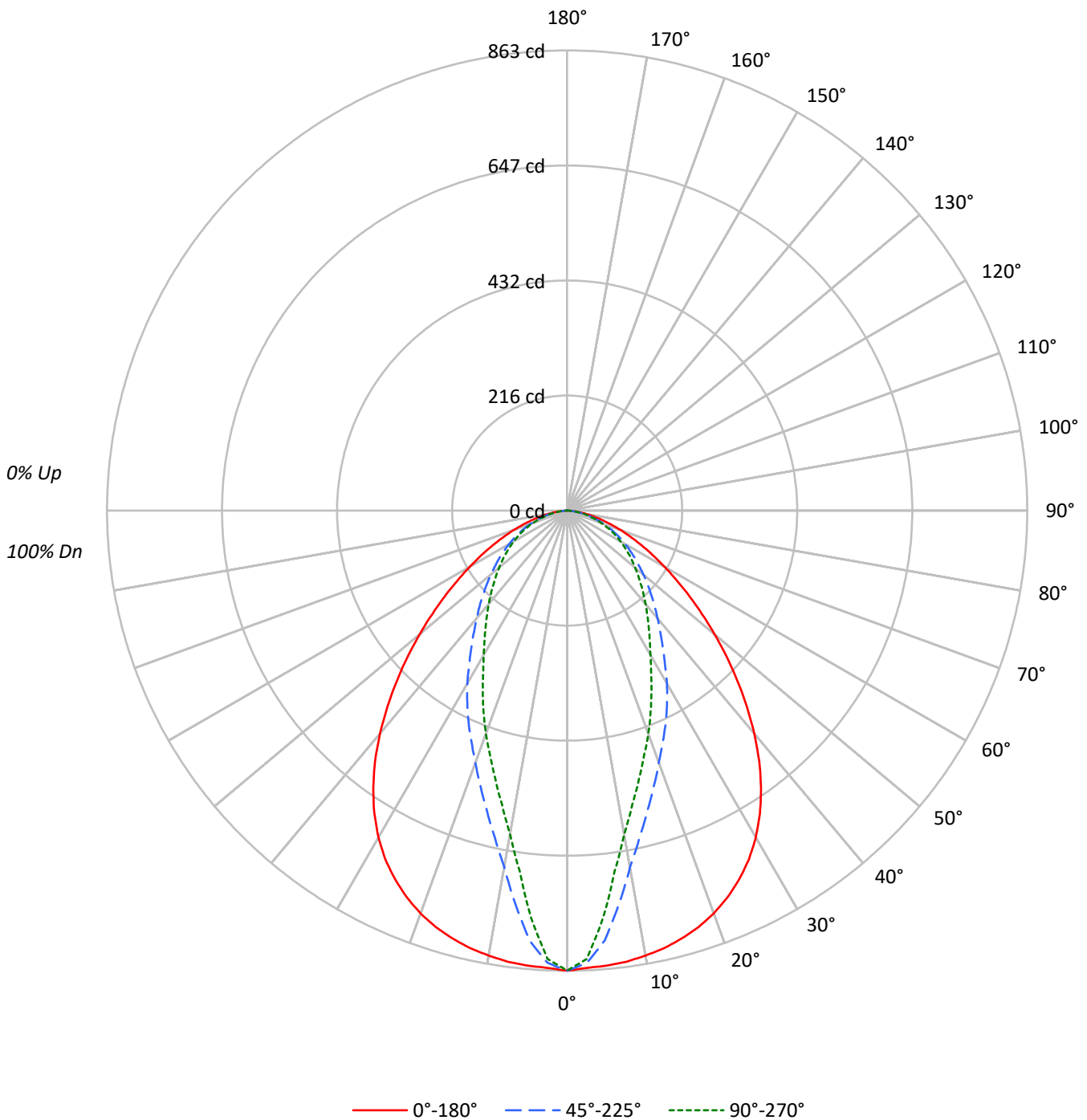
Lumens per Lamp: N/A
Luminaire Lumens: 1228.8 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 12.6
Input Voltage (V): 120
Input Current (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	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°	6099	6099	6099
5°	6077	5741	5452
10°	6082	4874	4423
15°	6080	4262	3810
20°	6048	3783	3349
25°	5953	3414	2918
30°	5775	3054	2551
35°	5471	2697	2304
40°	5038	2432	2111
45°	4514	2223	1955
50°	3967	2054	1829
55°	3447	1908	1728
60°	2976	1776	1636
65°	2564	1653	1539
70°	2197	1511	1420
75°	1835	1317	1262
80°	1449	1079	1046
85°	933	738	738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4514 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	6.0
10°-20°	174.9	14.2
20°-30°	222.2	18.1
30°-40°	226.3	18.4
40°-50°	200.2	16.3
50°-60°	156.9	12.8
60°-70°	107.0	8.7
70°-80°	55.1	4.5
80°-90°	12.3	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°	471.1	38.3
0°-40°	697.4	56.8
0°-60°	1054.4	85.8
0°-90°	1228.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1228.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	856	852	809	777	768	81
15°	831	703	582	530	521	234
25°	763	542	438	386	374	351
35°	634	410	312	273	267	395
45°	452	290	222	198	196	348
55°	280	194	155	141	140	252
65°	153	118	99	91	92	153
75°	67	56	48	45	46	72
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°	862.7	862.7	862.7	862.7	862.7
2.5°	858.4	865.1	848.9	844.6	841.4
5°	856.4	852.1	809.0	777.4	768.3
7.5°	853.3	829.2	744.2	690.5	682.2
10°	847.3	793.2	679.0	626.5	616.2
12.5°	840.6	750.1	627.7	574.4	564.5
15°	830.7	702.7	582.3	530.5	520.6
17.5°	818.9	657.7	541.2	490.2	480.7
20°	803.9	616.6	502.9	454.7	445.2
22.5°	785.3	577.9	468.9	419.5	409.2
25°	763.2	542.0	437.7	385.5	374.1
27.5°	737.9	507.6	405.7	351.6	340.5
30°	707.5	474.0	374.1	321.5	312.5
32.5°	673.1	441.6	341.7	295.5	288.0
35°	634.0	410.0	312.5	273.0	267.0
37.5°	591.4	378.8	287.2	252.0	246.9
40°	545.9	348.4	263.5	232.7	228.7
42.5°	498.9	319.2	242.9	215.3	211.7
45°	451.5	290.3	222.4	198.3	195.5
47.5°	405.3	263.9	204.2	182.9	180.5
50°	360.7	239.0	186.8	167.9	166.3
52.5°	318.8	215.7	169.9	154.1	153.3
55°	279.7	194.0	154.8	140.6	140.2
57.5°	243.7	173.4	139.8	127.6	127.6
60°	210.5	154.1	125.6	115.0	115.7
62.5°	180.9	135.5	112.2	103.1	103.9
65°	153.3	118.1	98.8	91.3	92.0
67.5°	128.4	101.5	85.7	79.4	80.2
70°	106.3	85.7	73.1	67.5	68.7
72.5°	85.7	71.1	60.4	56.1	57.3
75°	67.2	56.5	48.2	45.0	46.2
77.5°	50.6	43.1	37.1	34.4	35.6
80°	35.6	30.8	26.5	24.5	25.7
82.5°	22.1	19.8	17.4	15.8	16.6
85°	11.5	10.7	9.1	8.3	9.1
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	15.16	16.64	15.52	16.96	17.27	12.55	14.03	12.91	14.34	14.66
	3H	16.74	18.08	17.12	18.41	18.77	14.19	15.52	14.57	15.85	16.21
	4H	17.28	18.53	17.68	18.88	19.26	14.76	16.01	15.16	16.36	16.74
	6H	17.62	18.77	18.03	19.14	19.53	15.14	16.29	15.55	16.66	17.05
	8H	17.70	18.79	18.12	19.18	19.58	15.23	16.33	15.66	16.72	17.12
	12H	17.73	18.78	18.16	19.16	19.59	15.28	16.33	15.71	16.71	17.14
4H	2H	15.40	16.65	15.80	17.00	17.38	13.23	14.48	13.63	14.83	15.21
	3H	17.18	18.22	17.59	18.62	19.02	15.05	16.09	15.46	16.49	16.89
	4H	17.83	18.76	18.26	19.18	19.62	15.71	16.65	16.15	17.06	17.50
	6H	18.28	19.09	18.74	19.54	20.00	16.18	16.99	16.64	17.43	17.89
	8H	18.40	19.15	18.86	19.60	20.07	16.30	17.06	16.77	17.50	17.97
	12H	18.46	19.13	18.94	19.61	20.08	16.37	17.05	16.86	17.53	18.00
8H	4H	17.94	18.69	18.40	19.14	19.61	16.01	16.77	16.48	17.21	17.68
	6H	18.47	19.09	18.96	19.58	20.06	16.56	17.19	17.06	17.68	18.16
	8H	18.63	19.19	19.14	19.70	20.19	16.73	17.29	17.25	17.80	18.29
	12H	18.73	19.23	19.25	19.72	20.29	16.84	17.34	17.35	17.83	18.39
12H	4H	17.93	18.60	18.41	19.08	19.55	16.04	16.71	16.52	17.19	17.66
	6H	18.46	19.02	18.98	19.53	20.02	16.60	17.16	17.12	17.67	18.16
	8H	18.66	19.15	19.17	19.65	20.21	16.81	17.31	17.33	17.80	18.37