

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: P1217477

Luminaire Tested: S125DRP-H865D930-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217477
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-H865D930-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

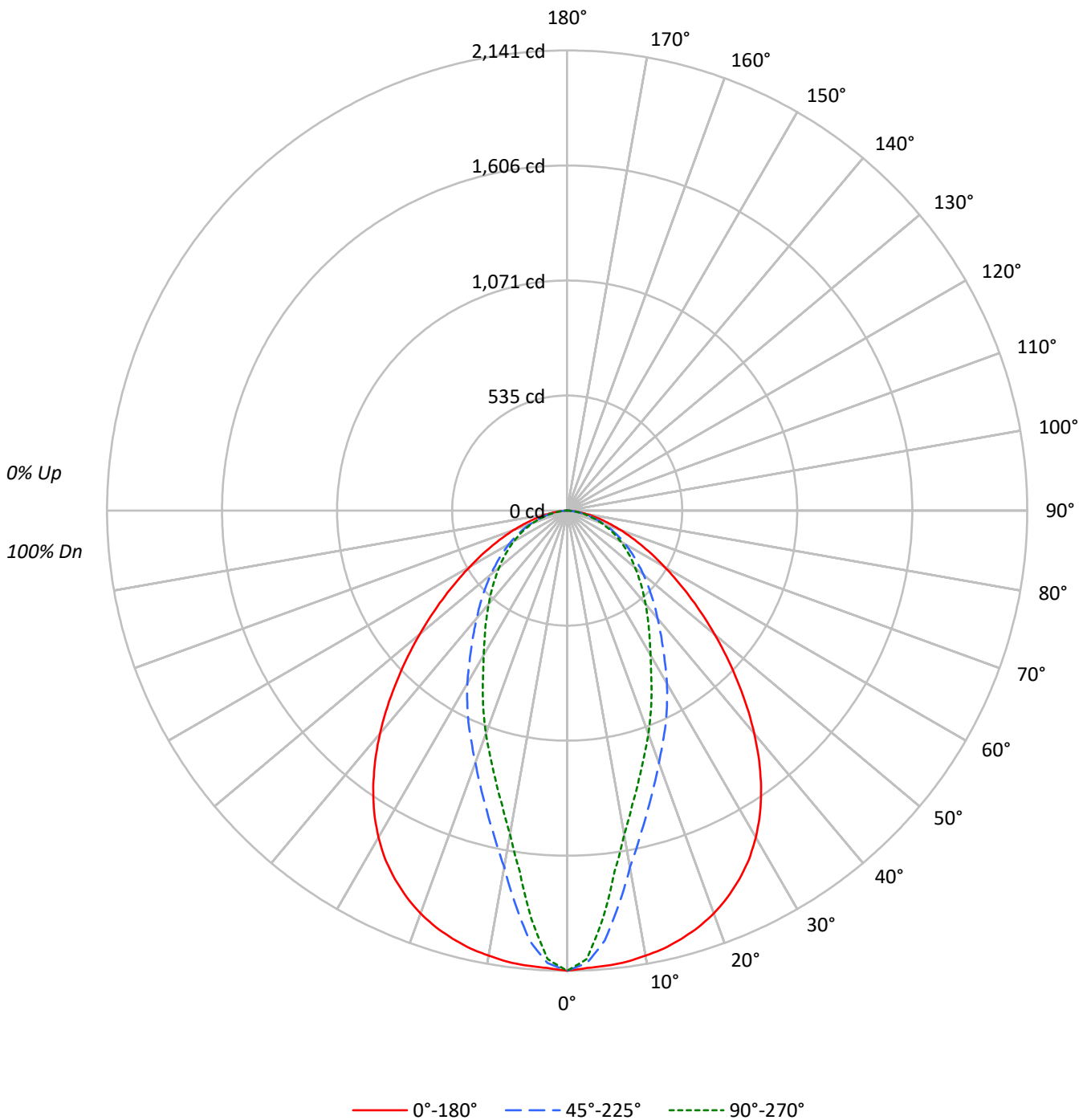
Lumens per Lamp: N/A
Luminaire Lumens: 3049.7 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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°	15137	15137	15137
5°	15083	14248	13532
10°	15095	12098	10979
15°	15090	10576	9457
20°	15009	9389	8312
25°	14774	8473	7242
30°	14333	7578	6330
35°	13579	6693	5719
40°	12504	6034	5238
45°	11203	5519	4852
50°	9844	5100	4539
55°	8555	4737	4289
60°	7387	4408	4062
65°	6363	4100	3821
70°	5451	3749	3526
75°	4553	3267	3133
80°	3591	2675	2593
85°	2304	1825	1825

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11203 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	6.0
10°-20°	434.0	14.2
20°-30°	551.4	18.1
30°-40°	561.6	18.4
40°-50°	496.8	16.3
50°-60°	389.3	12.8
60°-70°	265.5	8.7
70°-80°	136.8	4.5
80°-90°	30.6	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°	1169.2	38.3
0°-40°	1730.8	56.8
0°-60°	2616.9	85.8
0°-90°	3049.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3049.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2141	2141	2141	2141	2141	
5°	2126	2115	2008	1929	1907	202
15°	2062	1744	1445	1317	1292	582
25°	1894	1345	1086	957	928	870
35°	1574	1018	776	678	663	979
45°	1121	721	552	492	485	864
55°	694	481	384	349	348	625
65°	380	293	245	226	228	381
75°	167	140	120	112	115	179
85°	28	26	22	21	22	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2141.2	2141.2	2141.2	2141.2	2141.2
2.5°	2130.4	2147.1	2106.9	2096.1	2088.2
5°	2125.5	2114.7	2007.8	1929.4	1906.9
7.5°	2117.6	2057.8	1847.1	1713.7	1693.1
10°	2102.9	1968.6	1685.3	1554.9	1529.4
12.5°	2086.3	1861.8	1557.8	1425.5	1401.0
15°	2061.8	1744.1	1445.1	1316.7	1292.2
17.5°	2032.4	1632.4	1343.1	1216.7	1193.1
20°	1995.1	1530.4	1248.0	1128.4	1104.9
22.5°	1949.0	1434.3	1163.7	1041.2	1015.7
25°	1894.1	1345.1	1086.3	956.9	928.4
27.5°	1831.4	1259.8	1006.9	872.5	845.1
30°	1755.9	1176.5	928.4	798.0	775.5
32.5°	1670.6	1096.1	848.0	733.3	714.7
35°	1573.5	1017.6	775.5	677.5	662.7
37.5°	1467.6	940.2	712.7	625.5	612.7
40°	1354.9	864.7	653.9	577.5	567.6
42.5°	1238.2	792.2	602.9	534.3	525.5
45°	1120.6	720.6	552.0	492.2	485.3
47.5°	1005.9	654.9	506.9	453.9	448.0
50°	895.1	593.1	463.7	416.7	412.7
52.5°	791.2	535.3	421.6	382.4	380.4
55°	694.1	481.4	384.3	349.0	348.0
57.5°	604.9	430.4	347.1	316.7	316.7
60°	522.5	382.4	311.8	285.3	287.3
62.5°	449.0	336.3	278.4	255.9	257.8
65°	380.4	293.1	245.1	226.5	228.4
67.5°	318.6	252.0	212.7	197.1	199.0
70°	263.7	212.7	181.4	167.6	170.6
72.5°	212.7	176.5	150.0	139.2	142.2
75°	166.7	140.2	119.6	111.8	114.7
77.5°	125.5	106.9	92.2	85.3	88.2
80°	88.2	76.5	65.7	60.8	63.7
82.5°	54.9	49.0	43.1	39.2	41.2
85°	28.4	26.5	22.5	20.6	22.5
87.5°	9.8	9.8	8.8	7.8	8.8
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	18.32	19.80	18.68	20.12	20.43	15.70	17.19	16.07	17.50	17.82
	3H	19.90	21.24	20.28	21.56	21.93	17.35	18.68	17.72	19.01	19.37
	4H	20.44	21.69	20.84	22.04	22.41	17.92	19.17	18.32	19.52	19.90
	6H	20.77	21.93	21.19	22.29	22.69	18.30	19.45	18.71	19.82	20.21
	8H	20.85	21.95	21.28	22.34	22.74	18.39	19.49	18.82	19.88	20.28
	12H	20.88	21.93	21.32	22.32	22.75	18.44	19.49	18.87	19.87	20.30
4H	2H	18.56	19.81	18.96	20.16	20.54	16.39	17.64	16.79	17.99	18.37
	3H	20.34	21.38	20.75	21.78	22.18	18.21	19.24	18.62	19.64	20.05
	4H	20.99	21.92	21.42	22.34	22.78	18.87	19.80	19.31	20.22	20.66
	6H	21.44	22.25	21.90	22.69	23.15	19.34	20.15	19.80	20.59	21.05
	8H	21.56	22.31	22.02	22.76	23.22	19.46	20.22	19.93	20.66	21.13
	12H	21.62	22.29	22.10	22.77	23.24	19.53	20.21	20.01	20.69	21.16
8H	4H	21.10	21.85	21.56	22.30	22.76	19.17	19.93	19.63	20.37	20.84
	6H	21.62	22.25	22.12	22.74	23.22	19.72	20.34	20.22	20.84	21.31
	8H	21.79	22.34	22.30	22.85	23.34	19.89	20.45	20.40	20.96	21.45
	12H	21.89	22.38	22.40	22.88	23.44	20.00	20.49	20.51	20.99	21.55
12H	4H	21.09	21.76	21.57	22.24	22.71	19.19	19.87	19.68	20.35	20.82
	6H	21.62	22.18	22.13	22.69	23.18	19.76	20.32	20.27	20.83	21.32
	8H	21.82	22.31	22.33	22.80	23.37	19.97	20.46	20.48	20.96	21.52