

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: P1217343

Luminaire Tested: S122DRP-S865D935-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217343
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2511-596-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DRP-S865D935-X4F0-XX-UDD-G-W
Description: DEFINE 2, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

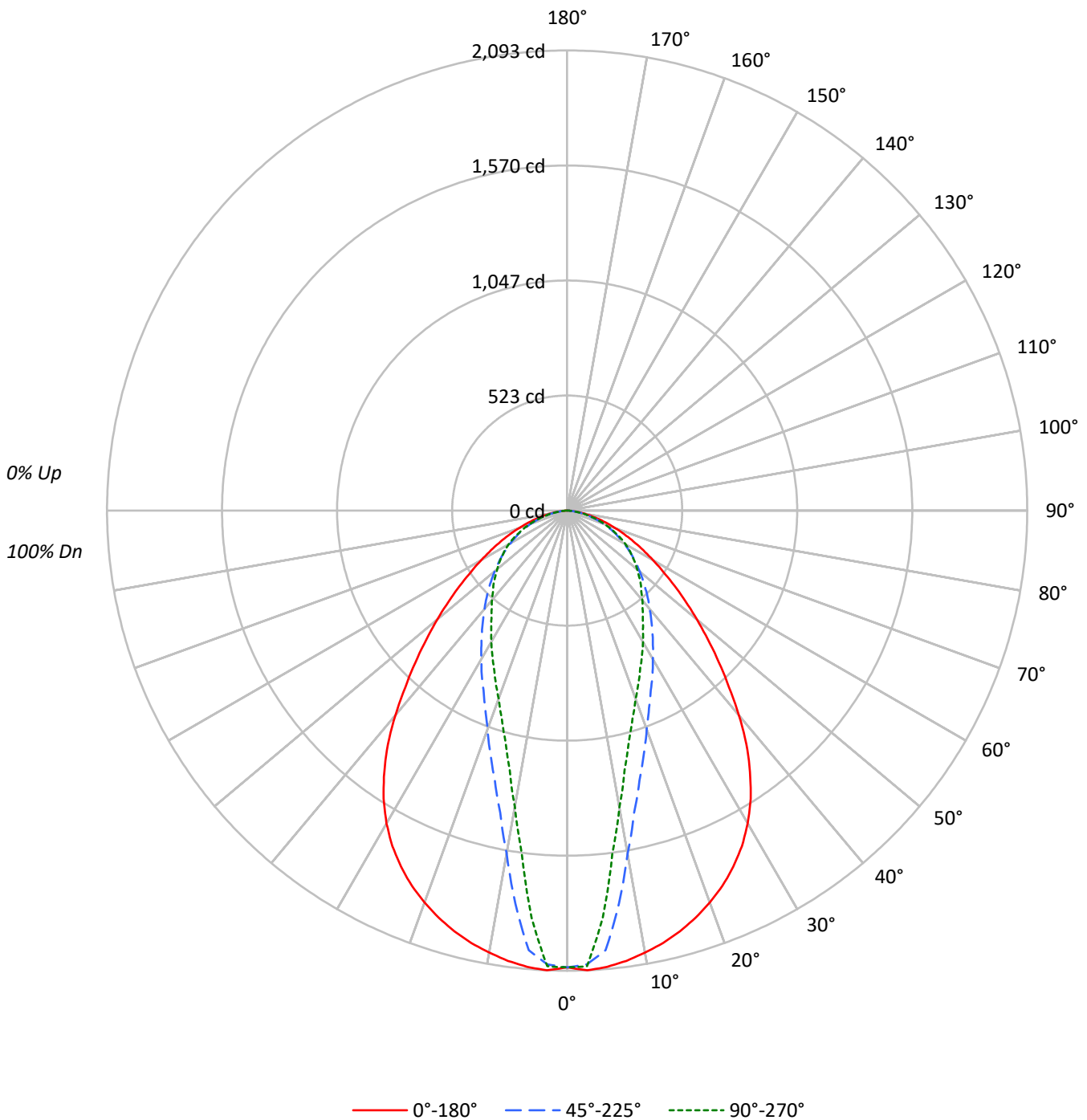
Lumens per Lamp: N/A
Luminaire Lumens: 2792.1 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 0.5 / 0.8
Luminous Opening: Rectangular (W 0.15' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
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	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57
5	80	69	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50
6	75	63	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	43	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39364	39364	39364
5°	39617	38175	35351
10°	39263	30485	26356
15°	38862	24916	21279
20°	38241	21327	18355
25°	37362	18829	16473
30°	35946	17073	15104
35°	33541	15642	13886
40°	30077	14448	13162
45°	26164	13504	12689
50°	22713	12683	12235
55°	19653	11994	11921
60°	17044	11296	11621
65°	14915	10593	10979
70°	12846	9727	10087
75°	10709	8572	8887
80°	8401	6972	6743
85°	5174	4478	4478

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26164 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.9	6.4
10°-20°	394.5	14.1
20°-30°	484.0	17.3
30°-40°	500.1	17.9
40°-50°	451.7	16.2
50°-60°	366.1	13.1
60°-70°	256.6	9.2
70°-80°	132.4	4.7
80°-90°	27.9	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°	1057.3	37.9
0°-40°	1557.4	55.8
0°-60°	2375.2	85.1
0°-90°	2792.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2792.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2078	2078	2078	2078	2078	
5°	2083	2079	2007	1917	1859	197
15°	1981	1670	1270	1133	1085	558
25°	1787	1187	901	815	788	821
35°	1450	877	676	619	600	902
45°	976	632	504	476	474	755
55°	595	432	363	359	361	536
65°	333	267	236	242	245	333
75°	146	126	117	120	121	158
85°	24	21	21	21	21	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2077.7	2077.7	2077.7	2077.7	2077.7
2.5°	2092.9	2085.3	2065.8	2084.2	2074.5
5°	2083.1	2078.8	2007.3	1917.3	1858.8
7.5°	2065.8	2050.6	1803.5	1633.3	1575.9
10°	2040.9	1965.0	1584.6	1426.3	1370.0
12.5°	2014.9	1836.0	1407.9	1259.4	1208.5
15°	1981.3	1670.2	1270.3	1132.6	1084.9
17.5°	1942.2	1526.0	1160.8	1028.6	990.6
20°	1896.7	1401.4	1057.8	941.9	910.4
22.5°	1846.9	1296.3	972.2	877.9	848.6
25°	1787.3	1186.8	900.7	815.0	788.0
27.5°	1721.1	1103.4	841.1	760.9	738.1
30°	1643.1	1022.1	780.4	708.8	690.4
32.5°	1554.2	946.2	726.2	663.3	641.6
35°	1450.2	876.8	676.3	618.9	600.4
37.5°	1339.6	808.5	628.6	578.8	563.6
40°	1216.1	748.9	584.2	539.8	532.2
42.5°	1089.3	689.3	544.1	506.2	499.7
45°	976.5	631.9	504.0	475.8	473.6
47.5°	867.1	579.9	467.1	445.5	443.3
50°	770.6	525.7	430.3	416.2	415.1
52.5°	678.5	478.0	395.6	388.0	390.2
55°	595.0	432.5	363.1	358.8	360.9
57.5°	518.1	390.2	330.6	331.7	334.9
60°	449.8	346.8	298.1	302.4	306.7
62.5°	390.2	306.7	266.6	273.1	277.5
65°	332.7	266.6	236.3	241.7	244.9
67.5°	281.8	228.7	205.9	212.4	213.5
70°	231.9	194.0	175.6	182.1	182.1
72.5°	188.6	158.2	146.3	149.6	150.7
75°	146.3	125.7	117.1	120.3	121.4
77.5°	110.6	95.4	88.9	92.1	91.0
80°	77.0	67.2	63.9	62.9	61.8
82.5°	47.7	42.3	39.0	40.1	39.0
85°	23.8	20.6	20.6	20.6	20.6
87.5°	7.6	7.6	7.6	7.6	7.6
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	21.26	22.76	21.62	23.07	23.39	19.76	21.26	20.12	21.57	21.88
	3H	22.85	24.19	23.22	24.52	24.88	21.47	22.82	21.85	23.14	23.51
	4H	23.37	24.63	23.77	24.98	25.36	22.05	23.31	22.45	23.66	24.04
	6H	23.70	24.86	24.11	25.23	25.62	22.40	23.56	22.81	23.93	24.32
	8H	23.77	24.88	24.20	25.27	25.67	22.47	23.58	22.90	23.97	24.37
	12H	23.80	24.86	24.23	25.24	25.67	22.50	23.57	22.93	23.95	24.38
4H	2H	21.57	22.83	21.97	23.18	23.56	20.32	21.58	20.72	21.93	22.31
	3H	23.35	24.40	23.76	24.80	25.20	22.23	23.28	22.64	23.68	24.08
	4H	23.98	24.92	24.41	25.34	25.78	22.93	23.87	23.36	24.29	24.73
	6H	24.41	25.23	24.87	25.68	26.14	23.38	24.20	23.84	24.64	25.10
	8H	24.52	25.28	24.98	25.73	26.20	23.48	24.25	23.95	24.69	25.16
	12H	24.57	25.25	25.05	25.73	26.20	23.54	24.22	24.02	24.70	25.17
8H	4H	24.13	24.89	24.59	25.34	25.81	23.17	23.93	23.63	24.38	24.85
	6H	24.63	25.27	25.13	25.76	26.24	23.71	24.34	24.20	24.83	25.31
	8H	24.78	25.35	25.30	25.86	26.35	23.86	24.42	24.37	24.93	25.42
	12H	24.87	25.37	25.38	25.86	26.43	23.95	24.45	24.46	24.94	25.51
12H	4H	24.13	24.81	24.61	25.29	25.76	23.18	23.86	23.66	24.34	24.81
	6H	24.64	25.20	25.15	25.71	26.20	23.73	24.29	24.24	24.80	25.29
	8H	24.82	25.32	25.33	25.81	26.38	23.92	24.42	24.43	24.91	25.48