

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: P1217478

Luminaire Tested: S125DRP-H865D935-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217478
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-H865D935-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

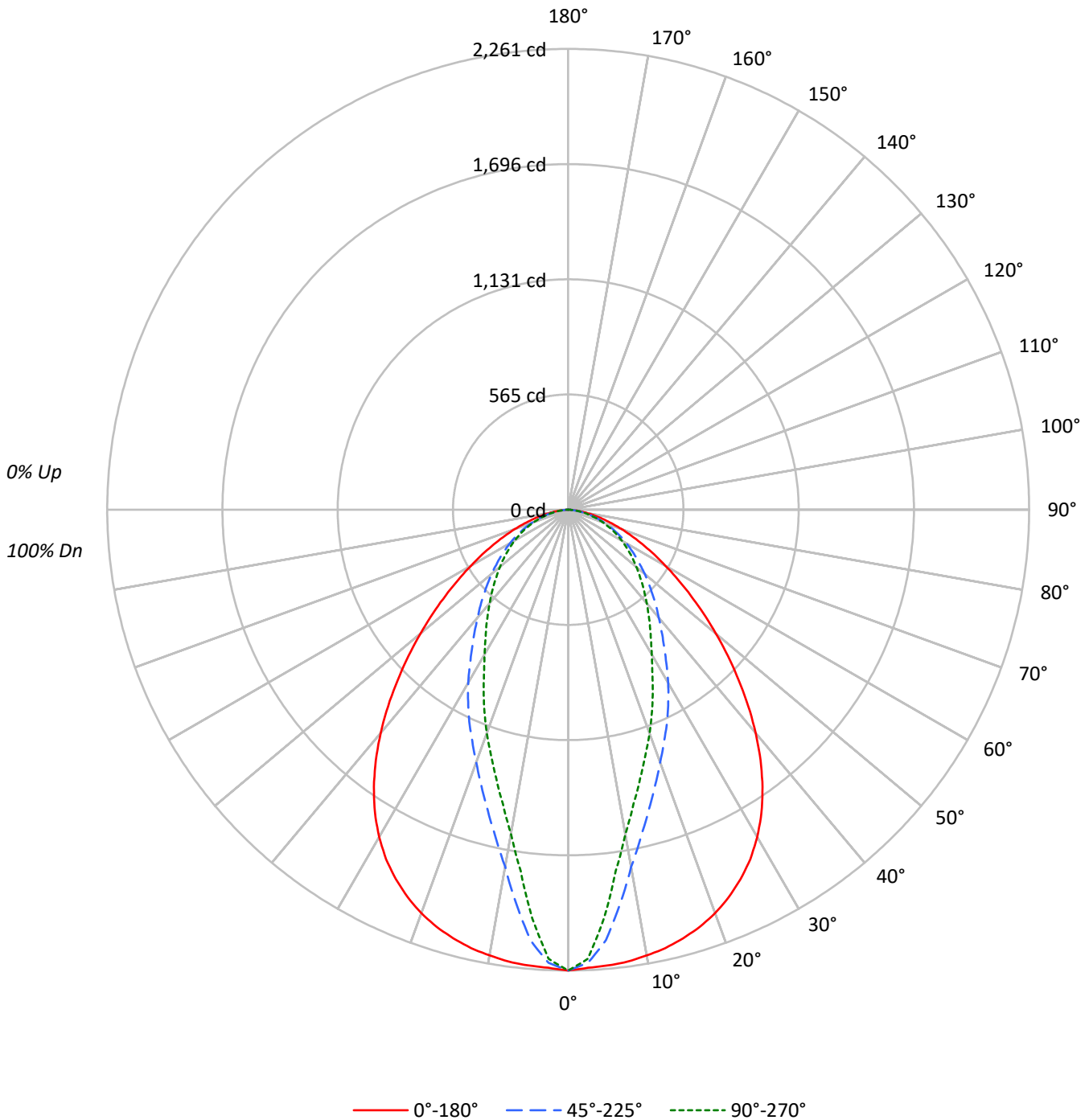
Lumens per Lamp: N/A
Luminaire Lumens: 3220.7 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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°	15985	15985	15985
5°	15928	15047	14290
10°	15942	12776	11594
15°	15935	11169	9987
20°	15850	9915	8778
25°	15603	8948	7648
30°	15137	8004	6685
35°	14341	7068	6040
40°	13204	6373	5532
45°	11831	5828	5124
50°	10396	5386	4794
55°	9034	5003	4529
60°	7802	4654	4290
65°	6719	4329	4035
70°	5756	3958	3725
75°	4807	3450	3308
80°	3794	2825	2740
85°	2433	1930	1930

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11831 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.1	6.0
10°-20°	458.4	14.2
20°-30°	582.3	18.1
30°-40°	593.1	18.4
40°-50°	524.6	16.3
50°-60°	411.1	12.8
60°-70°	280.4	8.7
70°-80°	144.4	4.5
80°-90°	32.3	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°	1234.7	38.3
0°-40°	1827.8	56.8
0°-60°	2763.6	85.8
0°-90°	3220.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3220.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2261	2261	2261	2261	2261	
5°	2245	2233	2120	2038	2014	214
15°	2177	1842	1526	1390	1365	614
25°	2000	1420	1147	1010	980	919
35°	1662	1075	819	715	700	1034
45°	1183	761	583	520	512	913
55°	733	508	406	369	368	660
65°	402	310	259	239	241	402
75°	176	148	126	118	121	189
85°	30	28	24	22	24	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2261.2	2261.2	2261.2	2261.2	2261.2
2.5°	2249.8	2267.4	2225.0	2213.6	2205.3
5°	2244.6	2233.2	2120.4	2037.6	2013.7
7.5°	2236.3	2173.2	1950.6	1809.8	1788.0
10°	2220.8	2079.0	1779.8	1642.1	1615.1
12.5°	2203.2	1966.1	1645.2	1505.4	1479.5
15°	2177.3	1841.9	1526.1	1390.5	1364.6
17.5°	2146.3	1723.9	1418.4	1284.9	1260.0
20°	2106.9	1616.2	1318.0	1191.7	1166.8
22.5°	2058.3	1514.7	1229.0	1099.5	1072.6
25°	2000.3	1420.5	1147.2	1010.5	980.5
27.5°	1934.0	1330.4	1063.3	921.5	892.5
30°	1854.3	1242.4	980.5	842.8	819.0
32.5°	1764.2	1157.5	895.6	774.4	754.8
35°	1661.7	1074.7	819.0	715.4	699.9
37.5°	1549.9	992.9	752.7	660.6	647.1
40°	1430.8	913.2	690.6	609.8	599.5
42.5°	1307.6	836.6	636.7	564.3	554.9
45°	1183.4	761.0	582.9	519.7	512.5
47.5°	1062.3	691.6	535.3	479.4	473.2
50°	945.3	626.4	489.7	440.0	435.9
52.5°	835.5	565.3	445.2	403.8	401.7
55°	733.0	508.4	405.9	368.6	367.5
57.5°	638.8	454.5	366.5	334.4	334.4
60°	551.8	403.8	329.2	301.3	303.4
62.5°	474.2	355.1	294.0	270.2	272.3
65°	401.7	309.6	258.8	239.2	241.2
67.5°	336.5	266.1	224.7	208.1	210.2
70°	278.5	224.7	191.5	177.0	180.2
72.5°	224.7	186.4	158.4	147.0	150.1
75°	176.0	148.1	126.3	118.0	121.1
77.5°	132.5	112.9	97.3	90.1	93.2
80°	93.2	80.8	69.4	64.2	67.3
82.5°	58.0	51.8	45.6	41.4	43.5
85°	30.0	28.0	23.8	21.7	23.8
87.5°	10.4	10.4	9.3	8.3	9.3
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	18.51	19.99	18.87	20.31	20.62	15.89	17.38	16.26	17.69	18.01
	3H	20.09	21.43	20.47	21.75	22.12	17.54	18.87	17.91	19.20	19.56
	4H	20.63	21.88	21.03	22.22	22.60	18.11	19.36	18.51	19.71	20.09
	6H	20.96	22.12	21.38	22.48	22.88	18.48	19.64	18.90	20.00	20.40
	8H	21.04	22.14	21.47	22.53	22.93	18.58	19.68	19.01	20.07	20.47
	12H	21.07	22.12	21.51	22.51	22.94	18.63	19.68	19.06	20.06	20.49
4H	2H	18.75	20.00	19.15	20.35	20.72	16.58	17.83	16.98	18.18	18.56
	3H	20.53	21.57	20.94	21.97	22.37	18.40	19.43	18.81	19.83	20.24
	4H	21.18	22.11	21.61	22.53	22.96	19.06	19.99	19.49	20.41	20.85
	6H	21.63	22.44	22.09	22.88	23.34	19.53	20.34	19.99	20.78	21.24
	8H	21.75	22.50	22.21	22.95	23.41	19.65	20.41	20.12	20.85	21.32
	12H	21.81	22.48	22.29	22.96	23.43	19.72	20.40	20.20	20.87	21.35
8H	4H	21.28	22.04	21.75	22.49	22.95	19.36	20.12	19.82	20.56	21.03
	6H	21.81	22.44	22.31	22.93	23.41	19.91	20.53	20.41	21.02	21.50
	8H	21.98	22.53	22.49	23.04	23.53	20.08	20.64	20.59	21.15	21.64
	12H	22.08	22.57	22.59	23.07	23.63	20.19	20.68	20.70	21.18	21.74
12H	4H	21.28	21.95	21.76	22.43	22.90	19.38	20.06	19.87	20.54	21.01
	6H	21.81	22.37	22.32	22.88	23.37	19.95	20.51	20.46	21.02	21.51
	8H	22.01	22.50	22.52	22.99	23.56	20.16	20.65	20.67	21.15	21.71