

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: P1217525

Luminaire Tested: S125DRP-S865D950-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217525
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-S865D950-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

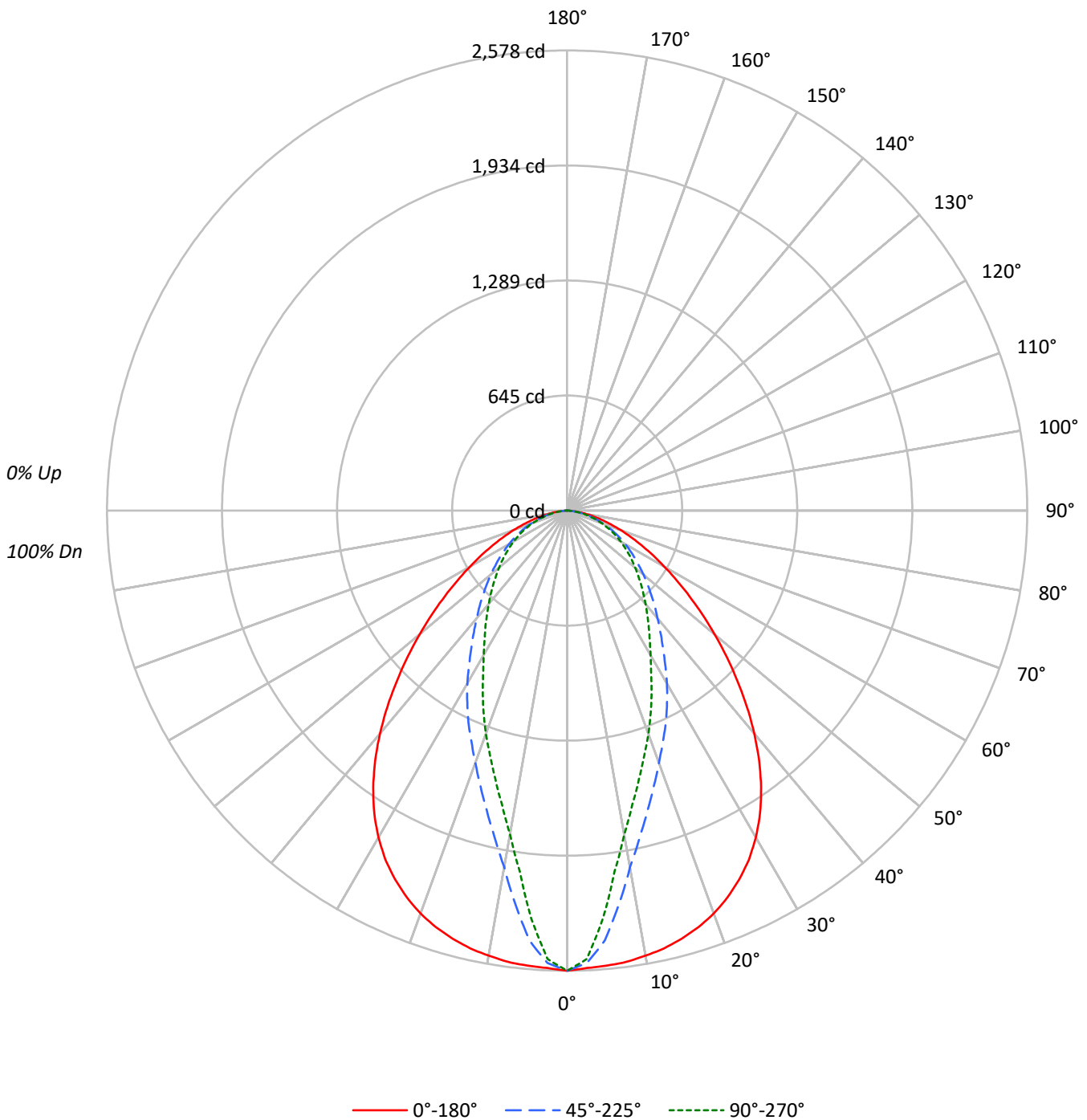
Lumens per Lamp: N/A
Luminaire Lumens: 3672.1 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	18225	18225	18225
5°	18161	17156	16293
10°	18176	14566	13219
15°	18169	12735	11386
20°	18072	11305	10009
25°	17789	10202	8720
30°	17258	9125	7622
35°	16351	8058	6887
40°	15055	7266	6308
45°	13490	6644	5842
50°	11854	6141	5466
55°	10301	5703	5165
60°	8896	5308	4891
65°	7661	4936	4600
70°	6563	4514	4245
75°	5482	3933	3772
80°	4323	3220	3123
85°	2774	2206	2206

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13490 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.3	6.0
10°-20°	522.6	14.2
20°-30°	663.9	18.1
30°-40°	676.2	18.4
40°-50°	598.1	16.3
50°-60°	468.8	12.8
60°-70°	319.7	8.7
70°-80°	164.7	4.5
80°-90°	36.8	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°	1407.8	38.3
0°-40°	2084.0	56.8
0°-60°	3150.9	85.8
0°-90°	3672.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3672.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2578	2578	2578	2578	2578	
5°	2559	2546	2418	2323	2296	244
15°	2482	2100	1740	1585	1556	700
25°	2281	1620	1308	1152	1118	1048
35°	1895	1225	934	816	798	1179
45°	1349	868	665	593	584	1041
55°	836	580	463	420	419	752
65°	458	353	295	273	275	458
75°	201	169	144	135	138	216
85°	34	32	27	25	27	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2578.1	2578.1	2578.1	2578.1	2578.1
2.5°	2565.1	2585.2	2536.8	2523.8	2514.4
5°	2559.2	2546.2	2417.6	2323.1	2296.0
7.5°	2549.8	2477.8	2224.0	2063.4	2038.6
10°	2532.1	2370.3	2029.2	1872.2	1841.5
12.5°	2512.0	2241.7	1875.7	1716.4	1686.9
15°	2482.5	2100.0	1740.0	1585.3	1555.8
17.5°	2447.1	1965.5	1617.2	1464.9	1436.6
20°	2402.2	1842.7	1502.7	1358.7	1330.4
22.5°	2346.7	1727.0	1401.2	1253.6	1222.9
25°	2280.6	1619.6	1307.9	1152.1	1117.9
27.5°	2205.1	1516.9	1212.3	1050.6	1017.5
30°	2114.2	1416.5	1117.9	960.9	933.7
32.5°	2011.5	1319.7	1021.1	883.0	860.5
35°	1894.6	1225.3	933.7	815.7	798.0
37.5°	1767.1	1132.1	858.2	753.1	737.8
40°	1631.4	1041.2	787.4	695.3	683.5
42.5°	1490.9	953.8	726.0	643.3	632.7
45°	1349.3	867.6	664.6	592.6	584.3
47.5°	1211.1	788.5	610.3	546.5	539.5
50°	1077.8	714.2	558.4	501.7	497.0
52.5°	952.6	644.5	507.6	460.4	458.0
55°	835.8	579.6	462.7	420.2	419.1
57.5°	728.3	518.2	417.9	381.3	381.3
60°	629.2	460.4	375.4	343.5	345.9
62.5°	540.6	404.9	335.2	308.1	310.5
65°	458.0	353.0	295.1	272.7	275.0
67.5°	383.6	303.4	256.2	237.3	239.6
70°	317.5	256.2	218.4	201.9	205.4
72.5°	256.2	212.5	180.6	167.6	171.2
75°	200.7	168.8	144.0	134.6	138.1
77.5°	151.1	128.7	111.0	102.7	106.2
80°	106.2	92.1	79.1	73.2	76.7
82.5°	66.1	59.0	51.9	47.2	49.6
85°	34.2	31.9	27.2	24.8	27.2
87.5°	11.8	11.8	10.6	9.4	10.6
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	18.96	20.45	19.33	20.76	21.08	16.35	17.83	16.71	18.15	18.46
	3H	20.55	21.88	20.93	22.21	22.57	17.99	19.32	18.37	19.65	20.01
	4H	21.08	22.33	21.48	22.68	23.06	18.57	19.82	18.97	20.16	20.54
	6H	21.42	22.57	21.83	22.94	23.33	18.94	20.09	19.35	20.46	20.85
	8H	21.50	22.60	21.93	22.99	23.39	19.04	20.13	19.46	20.52	20.93
	12H	21.53	22.58	21.96	22.96	23.39	19.08	20.13	19.51	20.51	20.94
4H	2H	19.20	20.45	19.60	20.80	21.18	17.03	18.28	17.43	18.63	19.01
	3H	20.99	22.02	21.40	22.42	22.82	18.85	19.89	19.26	20.29	20.69
	4H	21.63	22.56	22.07	22.98	23.42	19.52	20.45	19.95	20.87	21.31
	6H	22.09	22.90	22.54	23.34	23.80	19.98	20.79	20.44	21.24	21.70
	8H	22.20	22.96	22.66	23.40	23.87	20.11	20.86	20.57	21.31	21.78
	12H	22.26	22.94	22.74	23.41	23.89	20.18	20.85	20.66	21.33	21.80
8H	4H	21.74	22.50	22.20	22.94	23.41	19.82	20.57	20.28	21.02	21.48
	6H	22.27	22.89	22.77	23.38	23.86	20.37	20.99	20.86	21.48	21.96
	8H	22.43	22.99	22.95	23.50	23.99	20.53	21.09	21.05	21.60	22.09
	12H	22.54	23.03	23.05	23.52	24.09	20.65	21.14	21.16	21.63	22.20
12H	4H	21.73	22.41	22.21	22.88	23.36	19.84	20.51	20.32	20.99	21.46
	6H	22.26	22.82	22.78	23.33	23.82	20.40	20.96	20.92	21.47	21.96
	8H	22.46	22.96	22.97	23.45	24.01	20.62	21.11	21.13	21.60	22.17