

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: P1217520

Luminaire Tested: S125DRP-S865D850-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217520
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-S865D850-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

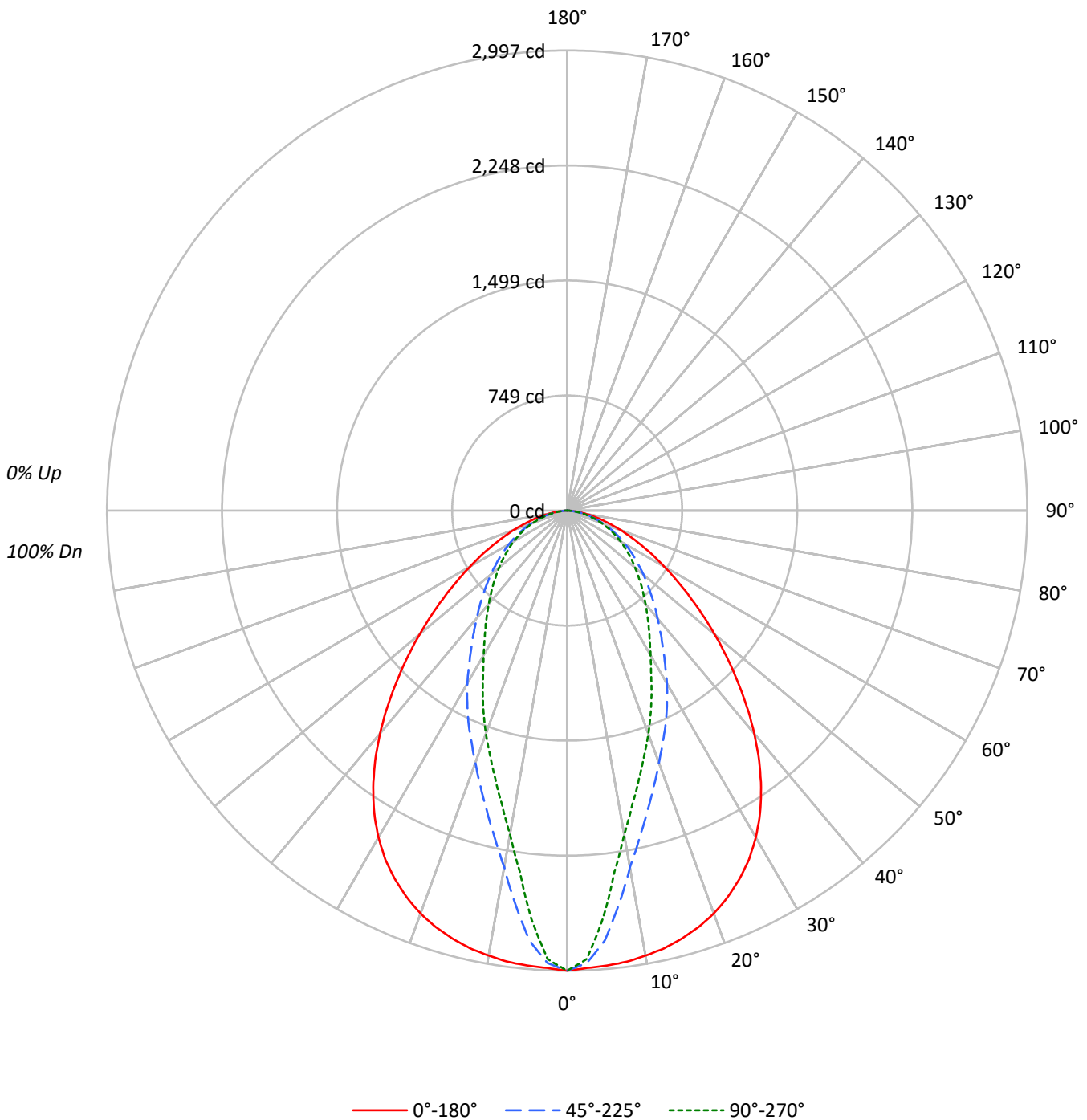
Lumens per Lamp: N/A
Luminaire Lumens: 4268.7 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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°	21187	21187	21187
5°	21112	19944	18940
10°	21130	16933	15367
15°	21120	14804	13237
20°	21008	13142	11634
25°	20680	11859	10136
30°	20062	10608	8860
35°	19008	9367	8005
40°	17501	8447	7332
45°	15681	7724	6791
50°	13779	7139	6354
55°	11974	6630	6004
60°	10341	6170	5685
65°	8906	5739	5348
70°	7629	5248	4936
75°	6372	4572	4387
80°	5028	3741	3631
85°	3228	2563	2563

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15681 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.2	6.0
10°-20°	607.5	14.2
20°-30°	771.8	18.1
30°-40°	786.1	18.4
40°-50°	695.3	16.3
50°-60°	544.9	12.8
60°-70°	371.7	8.7
70°-80°	191.4	4.5
80°-90°	42.8	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°	1636.5	38.3
0°-40°	2422.6	56.8
0°-60°	3662.8	85.8
0°-90°	4268.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4268.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2997	2997	2997	2997	2997	
5°	2975	2960	2810	2701	2669	283
15°	2886	2441	2023	1843	1809	814
25°	2651	1883	1520	1339	1300	1218
35°	2202	1424	1085	948	928	1371
45°	1568	1009	773	689	679	1210
55°	972	674	538	488	487	874
65°	532	410	343	317	320	533
75°	233	196	167	156	161	251
85°	40	37	32	29	32	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2997.0	2997.0	2997.0	2997.0	2997.0
2.5°	2981.9	3005.2	2949.0	2933.9	2922.9
5°	2975.0	2959.9	2810.4	2700.6	2669.0
7.5°	2964.0	2880.3	2585.3	2398.7	2369.9
10°	2943.5	2755.5	2358.9	2176.4	2140.7
12.5°	2920.1	2605.9	2180.5	1995.2	1960.9
15°	2885.8	2441.2	2022.7	1842.9	1808.6
17.5°	2844.7	2284.8	1880.0	1703.0	1670.0
20°	2792.5	2142.1	1746.9	1579.5	1546.5
22.5°	2728.0	2007.6	1628.9	1457.3	1421.6
25°	2651.2	1882.7	1520.4	1339.3	1299.5
27.5°	2563.4	1763.3	1409.3	1221.3	1182.9
30°	2457.7	1646.7	1299.5	1117.0	1085.4
32.5°	2338.3	1534.2	1187.0	1026.4	1000.4
35°	2202.5	1424.4	1085.4	948.2	927.6
37.5°	2054.2	1316.0	997.6	875.5	857.7
40°	1896.4	1210.3	915.3	808.3	794.5
42.5°	1733.1	1108.8	843.9	747.9	735.5
45°	1568.5	1008.6	772.6	688.9	679.3
47.5°	1407.9	916.7	709.4	635.3	627.1
50°	1252.9	830.2	649.1	583.2	577.7
52.5°	1107.4	749.2	590.1	535.2	532.4
55°	971.5	673.8	537.9	488.5	487.1
57.5°	846.7	602.4	485.8	443.2	443.2
60°	731.4	535.2	436.4	399.3	402.1
62.5°	628.5	470.7	389.7	358.2	360.9
65°	532.4	410.3	343.1	317.0	319.7
67.5°	446.0	352.7	297.8	275.8	278.6
70°	369.1	297.8	253.9	234.7	238.8
72.5°	297.8	247.0	210.0	194.9	199.0
75°	233.3	196.2	167.4	156.4	160.6
77.5°	175.6	149.6	129.0	119.4	123.5
80°	123.5	107.0	91.9	85.1	89.2
82.5°	76.8	68.6	60.4	54.9	57.6
85°	39.8	37.1	31.6	28.8	31.6
87.5°	13.7	13.7	12.4	11.0	12.4
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	19.48	20.97	19.85	21.28	21.60	16.87	18.36	17.24	18.67	18.98
	3H	21.07	22.40	21.45	22.73	23.09	18.51	19.85	18.89	20.17	20.54
	4H	21.61	22.85	22.01	23.20	23.58	19.09	20.34	19.49	20.69	21.07
	6H	21.94	23.10	22.35	23.46	23.85	19.46	20.62	19.88	20.98	21.38
	8H	22.02	23.12	22.45	23.51	23.91	19.56	20.66	19.99	21.05	21.45
	12H	22.05	23.10	22.48	23.49	23.91	19.61	20.66	20.04	21.04	21.47
4H	2H	19.73	20.98	20.13	21.32	21.70	17.56	18.81	17.96	19.16	19.53
	3H	21.51	22.55	21.92	22.95	23.35	19.38	20.41	19.79	20.81	21.21
	4H	22.16	23.09	22.59	23.50	23.94	20.04	20.97	20.47	21.39	21.83
	6H	22.61	23.42	23.07	23.86	24.32	20.51	21.32	20.97	21.76	22.22
	8H	22.72	23.48	23.19	23.92	24.39	20.63	21.39	21.09	21.83	22.30
	12H	22.78	23.46	23.27	23.94	24.41	20.70	21.37	21.18	21.85	22.32
8H	4H	22.26	23.02	22.73	23.46	23.93	20.34	21.09	20.80	21.54	22.01
	6H	22.79	23.41	23.29	23.91	24.39	20.89	21.51	21.39	22.00	22.48
	8H	22.95	23.51	23.47	24.02	24.51	21.06	21.62	21.57	22.13	22.61
	12H	23.06	23.55	23.57	24.04	24.61	21.17	21.66	21.68	22.15	22.72
12H	4H	22.25	22.93	22.74	23.41	23.88	20.36	21.04	20.85	21.52	21.99
	6H	22.79	23.35	23.30	23.86	24.34	20.93	21.49	21.44	22.00	22.49
	8H	22.99	23.48	23.50	23.97	24.54	21.14	21.63	21.65	22.13	22.69