

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P998518

Luminaire Tested: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998518
REPORT IS A COMBINATION OF REPORTS P984261 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-F_5000K
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

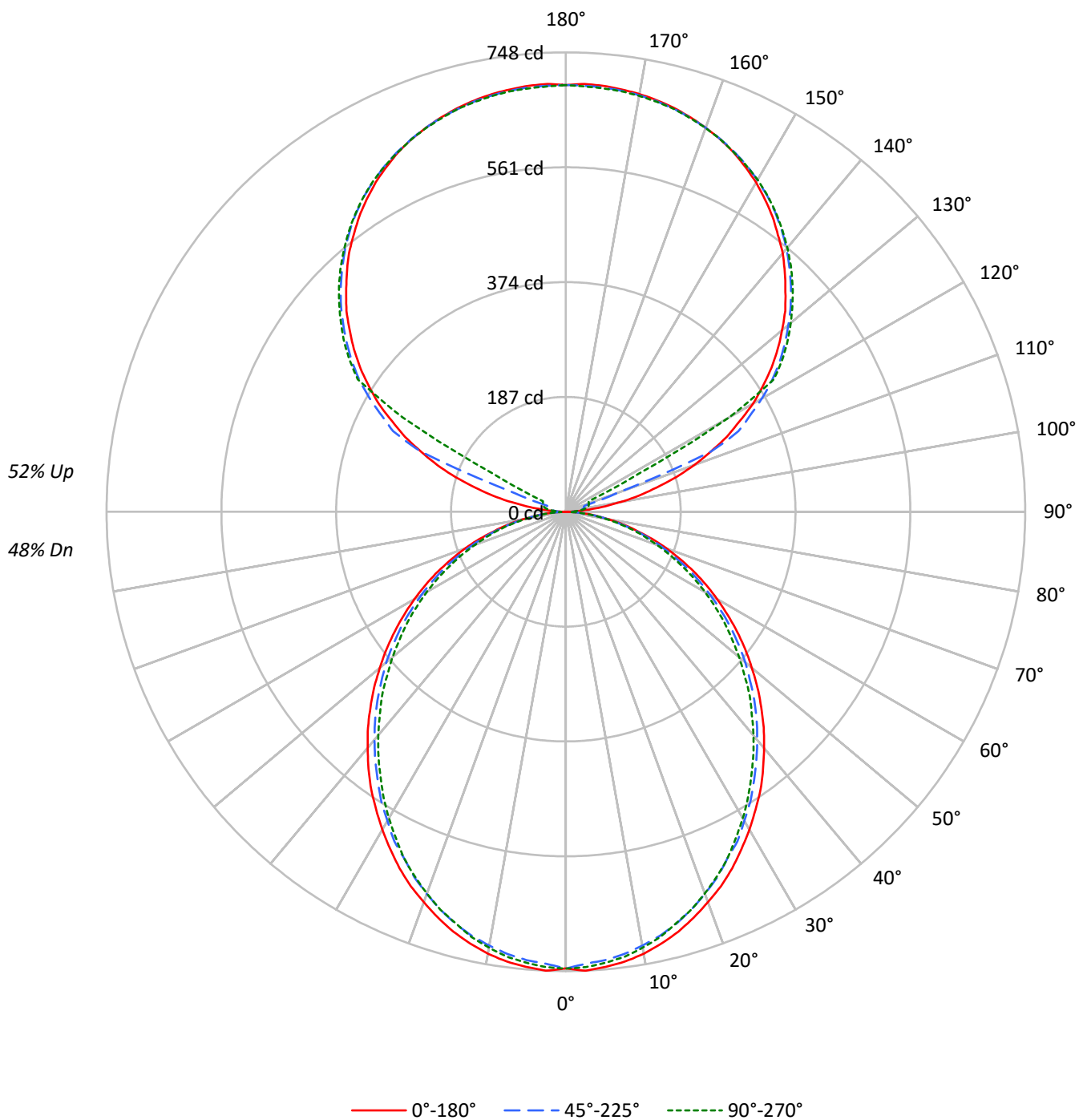
Lumens per Lamp: N/A
Luminaire Lumens: 3930.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
Input Voltage (V):
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

TEST NUMBER: P998518

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-F_5000K

Luminous Intensity Polar Plot



TEST NUMBER: P998518

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-F_5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	38	35	33
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	34	31	28
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25
6	63	51	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19
8	54	41	34	28	49	38	32	27	33	28	24	28	24	20	23	20	17
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11772	11772	11772
5°	11791	11220	11141
10°	11695	10709	10497
15°	11524	10194	9819
20°	11291	9633	9177
25°	11061	9048	8536
30°	10771	8498	7863
35°	10497	7919	7203
40°	10160	7345	6579
45°	9824	6777	5966
50°	9455	6199	5332
55°	9070	5582	4729
60°	8636	4912	4104
65°	8159	4233	3447
70°	7557	3489	2783
75°	6718	2689	2149
80°	5708	1829	1383
85°	4139	851	588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9824 cd/sqm

TEST NUMBER: P998518

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-F_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.8
10°-20°	196.9	5.0
20°-30°	289.4	7.4
30°-40°	336.1	8.6
40°-50°	335.7	8.5
50°-60°	292.7	7.4
60°-70°	216.4	5.5
70°-80°	122.4	3.1
80°-90°	33.5	0.9
90°-100°	22.9	0.6
100°-110°	85.4	2.2
110°-120°	226.5	5.8
120°-130°	375.7	9.6
130°-140°	399.0	10.2
140°-150°	370.9	9.4
150°-160°	298.2	7.6
160°-170°	192.1	4.9
170°-180°	66.1	1.7
0°-30°	556.3	14.2
0°-40°	892.4	22.7
0°-60°	1520.9	38.7
0°-90°	1893.2	48.2
90°-120°	334.8	8.5
90°-150°	1480.4	37.7
90°-180°	2037.0	51.8
0°-180°	3930.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	744	741	733	739	737	71
15°	708	704	694	697	694	199
25°	641	635	623	624	623	295
35°	553	546	534	530	526	345
45°	450	445	434	426	423	347
55°	340	336	328	319	315	304
65°	230	225	218	212	208	227
75°	120	119	115	111	112	128
85°	29	29	28	26	25	33
90°	0	6	10	13	14	4
95°	33	16	20	22	22	39
105°	153	168	31	36	38	163
115°	289	298	310	77	41	285
125°	409	415	425	428	430	365
135°	506	514	518	523	522	391
145°	587	586	595	598	596	367
155°	646	642	648	650	646	298
165°	681	678	679	683	679	192
175°	696	693	694	697	692	66
180°	695	695	695	695	695	

TEST NUMBER: P998518

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-F_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.7	743.7	743.7	743.7	743.7
2.5°	748.0	744.4	736.5	743.7	742.2
5°	743.7	740.8	732.9	738.7	737.2
7.5°	738.7	734.4	726.5	732.2	730.8
10°	730.8	725.8	717.2	722.9	720.8
12.5°	720.1	715.8	707.2	710.8	709.3
15°	707.9	703.6	694.3	697.2	693.6
17.5°	692.9	688.6	679.3	682.9	679.3
20°	676.4	672.2	662.1	664.3	661.4
22.5°	660.0	653.6	644.3	644.3	642.8
25°	640.7	635.0	622.8	624.2	622.8
27.5°	619.2	614.2	604.9	602.8	599.2
30°	597.8	592.1	581.3	579.2	576.3
32.5°	574.9	570.6	559.2	554.9	552.0
35°	552.7	545.6	534.2	529.9	526.3
37.5°	527.7	521.3	509.8	504.8	501.3
40°	502.0	496.3	484.8	478.4	475.5
42.5°	476.9	471.2	459.8	452.6	448.3
45°	449.8	444.8	434.0	426.2	423.3
47.5°	423.3	418.3	406.9	399.0	394.7
50°	395.4	391.9	381.8	371.8	368.3
52.5°	368.3	363.3	354.0	346.1	341.1
55°	340.4	336.1	327.5	318.9	315.3
57.5°	312.5	308.9	299.6	291.0	288.2
60°	284.6	281.7	271.7	263.9	261.7
62.5°	257.4	252.4	245.3	238.1	235.3
65°	229.5	225.2	218.1	211.7	208.1
67.5°	200.9	197.4	190.9	185.9	183.1
70°	174.5	171.6	165.2	160.2	157.3
72.5°	147.3	144.4	140.9	135.9	133.7
75°	120.1	118.7	115.1	110.8	112.3
77.5°	95.8	93.0	91.5	89.4	87.2
80°	71.5	70.8	69.4	67.2	65.8
82.5°	48.6	48.6	47.9	45.0	45.0
85°	29.3	28.6	27.9	25.7	25.0
87.5°	12.9	11.4	10.0	7.9	7.2
90°	0.5	6.0	10.1	12.6	13.6
92.5°	12.6	10.6	12.1	13.1	13.6
95°	32.7	16.1	19.6	22.1	21.6
97.5°	58.8	17.6	25.6	27.1	27.6
100°	89.0	20.1	28.7	32.7	33.7
102.5°	122.2	121.2	29.7	35.2	36.7
105°	152.8	167.9	30.7	36.2	38.2
107.5°	188.5	201.1	31.7	37.2	39.2
110°	222.7	233.3	88.0	37.7	39.7



TEST NUMBER: P998518

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-F_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	254.9	263.9	255.4	38.7	40.2
115°	289.1	297.6	310.2	77.4	41.2
117.5°	318.7	328.8	337.3	265.4	133.7
120°	351.9	359.4	368.5	374.5	306.7
122.5°	380.1	388.1	398.2	401.2	401.7
125°	408.7	415.2	424.8	428.3	429.8
127.5°	434.9	441.9	449.4	454.5	455.0
130°	459.5	467.5	473.1	478.6	478.1
132.5°	484.6	491.2	496.7	501.2	500.7
135°	505.7	513.8	518.3	523.3	522.3
137.5°	527.9	533.9	538.9	543.9	542.4
140°	549.5	553.5	559.0	563.5	561.0
142.5°	567.6	571.1	577.6	581.6	579.1
145°	586.7	586.2	594.7	598.2	595.7
147.5°	603.3	601.8	610.3	612.8	610.8
150°	619.3	615.8	623.9	626.9	624.4
152.5°	632.9	628.9	636.4	639.5	635.9
155°	646.0	641.5	647.5	650.5	646.5
157.5°	656.5	652.5	657.1	660.6	656.5
160°	665.6	662.6	665.6	668.6	665.1
162.5°	673.6	670.6	673.1	676.7	672.1
165°	680.7	677.7	679.2	682.7	679.2
167.5°	686.2	683.2	684.7	688.2	683.7
170°	690.7	687.7	688.7	692.2	687.7
172.5°	693.7	690.7	691.7	695.3	690.7
175°	696.3	692.7	693.7	697.3	692.2
177.5°	697.3	693.7	694.3	697.8	693.2
180°	694.8	694.8	694.8	694.8	694.8

TEST NUMBER: P998518

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-F_5000K

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	13.63	14.48	14.60	15.46	16.76	14.41	15.26	15.39	16.24	17.54
	3H	14.97	15.73	15.95	16.72	18.04	16.04	16.80	17.02	17.79	19.11
	4H	15.37	16.09	16.37	17.09	18.42	16.63	17.35	17.63	18.35	19.67
	6H	15.59	16.25	16.60	17.26	18.59	17.03	17.69	18.04	18.70	20.04
	8H	15.62	16.25	16.63	17.27	18.61	17.14	17.77	18.15	18.79	20.13
	12H	15.61	16.21	16.63	17.22	18.58	17.18	17.78	18.20	18.80	20.16
4H	2H	14.10	14.82	15.10	15.82	17.14	14.74	15.46	15.74	16.46	17.79
	3H	15.61	16.21	16.63	17.24	18.58	16.52	17.12	17.53	18.15	19.49
	4H	16.12	16.67	17.14	17.69	19.05	17.20	17.75	18.22	18.77	20.13
	6H	16.42	16.89	17.45	17.94	19.30	17.70	18.17	18.73	19.21	20.57
	8H	16.48	16.92	17.51	17.96	19.33	17.84	18.28	18.87	19.32	20.69
	12H	16.48	16.88	17.53	17.93	19.31	17.90	18.30	18.95	19.35	20.73
8H	4H	16.29	16.73	17.33	17.77	19.15	17.29	17.73	18.32	18.76	20.14
	6H	16.68	17.04	17.73	18.12	19.49	17.85	18.22	18.91	19.30	20.67
	8H	16.78	17.10	17.84	18.16	19.55	18.04	18.36	19.11	19.43	20.82
	12H	16.81	17.09	17.88	18.15	19.58	18.14	18.42	19.21	19.48	20.91
12H	4H	16.28	16.67	17.33	17.73	19.11	17.25	17.65	18.30	18.70	20.08
	6H	16.69	17.02	17.76	18.08	19.47	17.85	18.17	18.91	19.23	20.62
	8H	16.81	17.09	17.87	18.15	19.58	18.04	18.32	19.11	19.38	20.81