

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: P998513

Luminaire Tested: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998513
REPORT IS A COMBINATION OF REPORTS P984256 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-D_5000K
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

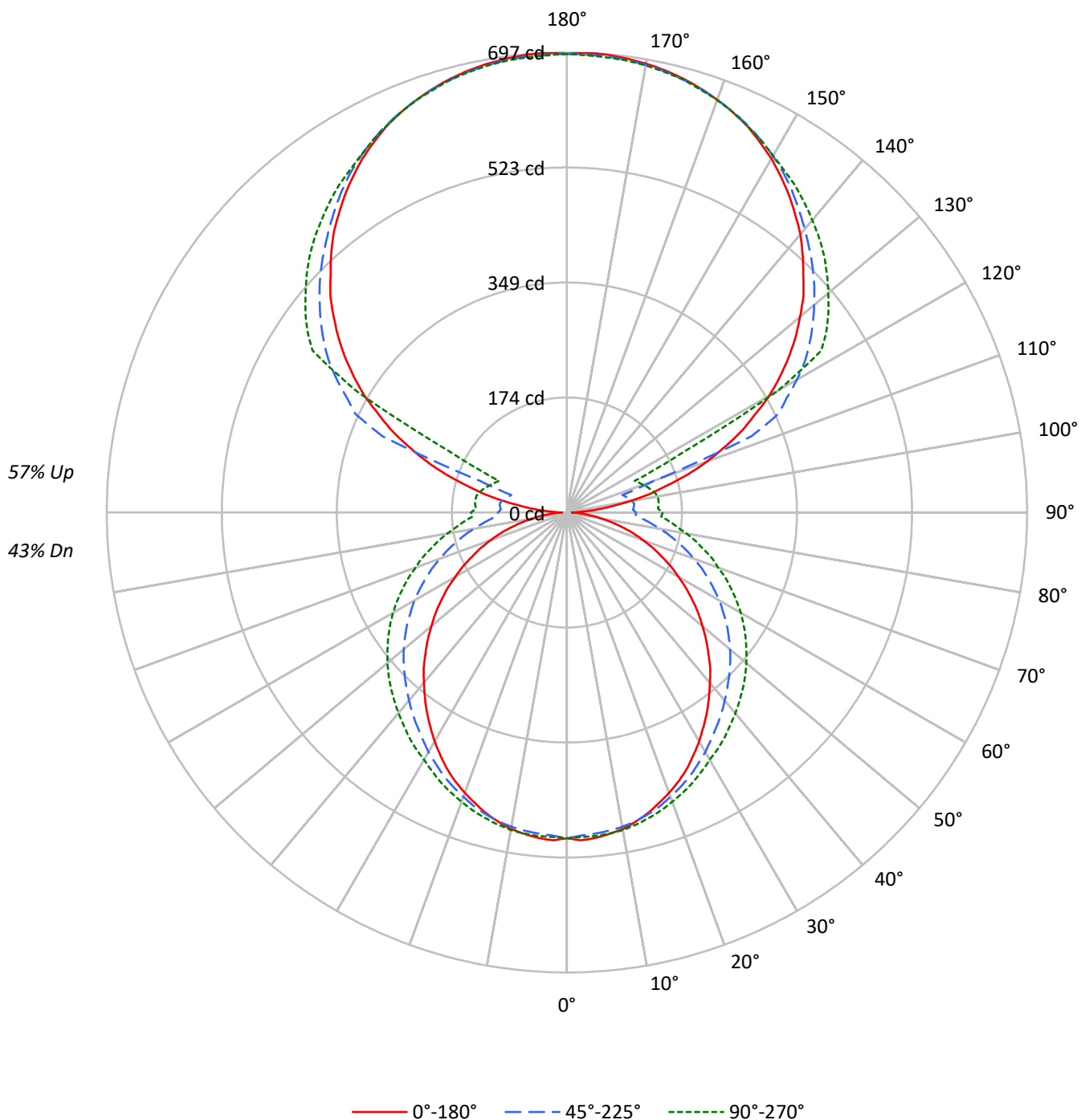
Lumens per Lamp: N/A
Luminaire Lumens: 3921.0 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49
1	95	90	86	82	86	82	78	75	68	65	62	54	52	50	42	40	39
2	86	78	71	66	78	71	65	61	58	54	51	47	44	41	36	34	32
3	78	68	60	54	71	62	55	50	51	46	42	41	37	34	31	29	27
4	71	60	52	45	64	55	48	42	45	40	35	36	32	29	28	25	23
5	65	53	45	39	59	49	41	36	40	34	30	32	28	25	25	22	19
6	60	47	39	33	54	44	36	31	36	30	26	29	25	21	22	19	17
7	55	43	35	29	50	39	32	27	33	27	23	26	22	19	20	17	15
8	51	39	31	25	46	36	28	24	30	24	20	24	20	17	19	16	13
9	48	35	28	22	43	32	26	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7812	7812	7812
5°	7847	7478	7437
10°	7795	7220	7114
15°	7684	6952	6784
20°	7545	6669	6470
25°	7408	6401	6186
30°	7216	6127	5904
35°	7023	5863	5698
40°	6819	5635	5491
45°	6622	5428	5312
50°	6414	5238	5135
55°	6193	5035	4955
60°	5926	4824	4767
65°	5645	4580	4548
70°	5327	4319	4315
75°	4923	4060	4092
80°	4279	3789	3864
85°	3630	3534	3666

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6622 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	1.2
10°-20°	134.2	3.4
20°-30°	203.3	5.2
30°-40°	247.6	6.3
40°-50°	266.4	6.8
50°-60°	258.7	6.6
60°-70°	225.9	5.8
70°-80°	173.9	4.4
80°-90°	117.7	3.0
90°-100°	103.2	2.6
100°-110°	144.1	3.7
110°-120°	265.2	6.8
120°-130°	397.2	10.1
130°-140°	408.1	10.4
140°-150°	372.4	9.5
150°-160°	298.2	7.6
160°-170°	192.1	4.9
170°-180°	66.1	1.7
0°-30°	384.3	9.8
0°-40°	631.8	16.1
0°-60°	1156.9	29.5
0°-90°	1674.3	42.7
90°-120°	512.6	13.1
90°-150°	1690.3	43.1
90°-180°	2247.0	57.3
0°-180°	3921.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	494	494	494	494	494	
5°	495	493	488	493	492	47
15°	472	474	474	480	479	133
25°	429	434	441	449	451	197
35°	370	382	396	411	416	231
45°	303	323	348	370	377	234
55°	232	258	295	321	330	208
65°	159	194	236	265	275	158
75°	88	128	174	204	214	93
85°	26	70	116	146	156	27
90°	8	55	104	136	145	7
95°	38	55	102	132	140	43
105°	156	192	92	123	133	167
115°	292	308	353	142	113	287
125°	410	417	449	472	480	366
135°	506	514	526	546	551	391
145°	587	586	595	602	604	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	493.5	493.5	493.5	493.5	493.5
2.5°	497.1	494.9	489.9	493.5	492.1
5°	494.9	492.8	488.5	492.8	492.1
7.5°	491.3	489.9	486.3	491.3	490.6
10°	487.1	485.6	483.5	489.2	488.5
12.5°	479.9	480.6	479.2	484.9	484.2
15°	472.0	473.5	473.5	479.9	479.2
17.5°	462.0	464.9	467.0	473.5	473.5
20°	452.0	455.6	458.4	466.3	466.3
22.5°	441.3	445.6	449.9	457.7	459.2
25°	429.1	434.1	440.6	449.2	451.3
27.5°	414.8	422.7	429.8	440.6	442.0
30°	400.5	409.8	419.1	430.6	432.7
32.5°	384.8	395.5	407.0	420.5	424.8
35°	369.8	381.9	395.5	411.2	416.3
37.5°	353.3	366.9	384.1	401.2	406.2
40°	336.9	352.6	371.9	390.5	396.9
42.5°	321.1	336.9	359.7	380.5	386.9
45°	303.2	322.6	347.6	369.8	376.9
47.5°	286.1	306.8	335.4	358.3	366.2
50°	268.2	290.4	322.6	346.9	354.7
52.5°	251.0	274.6	309.0	334.0	342.6
55°	232.4	258.2	295.4	321.1	330.4
57.5°	214.6	243.2	280.4	308.3	317.6
60°	195.3	226.0	266.8	294.0	304.0
62.5°	178.1	210.3	251.0	280.4	289.7
65°	158.8	193.8	236.0	265.3	274.6
67.5°	141.6	178.1	221.0	250.3	260.3
70°	123.0	160.2	204.5	235.3	243.9
72.5°	105.9	144.5	189.5	219.6	230.3
75°	88.0	128.0	173.8	204.5	213.8
77.5°	70.8	112.3	158.8	189.5	199.5
80°	53.6	97.3	143.8	173.8	183.8
82.5°	39.3	82.2	129.5	159.5	168.8
85°	25.7	70.1	115.9	145.9	155.9
87.5°	15.7	58.6	104.4	133.7	143.0
90°	7.7	54.6	104.5	135.6	145.2
92.5°	19.0	54.9	100.1	129.0	138.0
95°	38.4	55.4	101.8	131.5	139.6
97.5°	63.8	53.4	102.8	130.8	139.9
100°	94.0	51.6	100.2	130.7	139.6
102.5°	126.5	149.1	96.2	127.5	136.8
105°	156.4	192.2	92.2	122.7	132.6
107.5°	192.1	221.8	88.2	118.0	127.9
110°	225.6	250.5	140.2	112.8	122.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	257.8	278.2	302.6	108.8	118.2
115°	292.0	308.3	353.1	141.8	113.4
117.5°	320.8	336.7	375.2	324.8	200.2
120°	354.0	364.4	402.1	428.1	368.2
122.5°	382.2	391.0	427.5	449.8	456.8
125°	410.1	416.6	449.1	471.9	479.9
127.5°	436.3	442.6	469.4	492.4	499.3
130°	460.9	468.2	488.8	511.5	516.7
132.5°	486.0	491.9	508.1	529.1	534.3
135°	506.4	514.5	526.2	546.2	550.9
137.5°	528.6	534.6	543.2	561.8	565.3
140°	550.2	553.5	560.4	576.4	578.2
142.5°	568.3	571.1	577.6	590.2	591.3
145°	586.7	586.2	594.7	602.5	603.6
147.5°	603.3	601.8	610.3	613.5	613.7
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

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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	11.65	12.49	12.66	13.51	14.88	14.72	15.56	15.73	16.59	17.96
	3H	13.11	13.87	14.12	14.90	16.29	17.31	18.07	18.33	19.10	20.49
	4H	13.58	14.30	14.61	15.34	16.73	18.56	19.28	19.59	20.32	21.71
	6H	13.87	14.53	14.90	15.57	16.98	19.86	20.53	20.90	21.57	22.97
	8H	13.92	14.56	14.97	15.62	17.02	20.52	21.15	21.56	22.21	23.61
	12H	13.94	14.55	14.99	15.60	17.03	21.24	21.85	22.29	22.90	24.33
4H	2H	12.70	13.42	13.73	14.45	15.85	15.05	15.77	16.09	16.81	18.20
	3H	14.40	15.01	15.45	16.08	17.48	17.84	18.45	18.88	19.51	20.92
	4H	15.02	15.59	16.07	16.64	18.07	19.26	19.82	20.31	20.87	22.30
	6H	15.44	15.93	16.50	17.00	18.43	20.72	21.21	21.78	22.29	23.71
	8H	15.55	16.00	16.61	17.07	18.52	21.48	21.94	22.54	23.01	24.45
	12H	15.59	16.01	16.67	17.09	18.54	22.31	22.73	23.39	23.81	25.25
8H	4H	15.81	16.27	16.87	17.34	18.78	19.40	19.86	20.46	20.93	22.37
	6H	16.44	16.83	17.53	17.94	19.38	21.03	21.41	22.11	22.52	23.96
	8H	16.67	17.01	17.75	18.10	19.56	21.92	22.26	23.01	23.35	24.81
	12H	16.80	17.10	17.89	18.19	19.68	22.91	23.21	24.00	24.30	25.80
12H	4H	16.01	16.43	17.09	17.51	18.96	19.37	19.79	20.45	20.87	22.32
	6H	16.78	17.12	17.87	18.21	19.67	21.05	21.39	22.14	22.49	23.94
	8H	17.08	17.38	18.18	18.47	19.97	21.98	22.28	23.07	23.37	24.87