

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: P998532

Luminaire Tested: SA2XXDIP-B485D530UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998532
REPORT IS A COMBINATION OF REPORTS P984275 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B485D530UB35-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

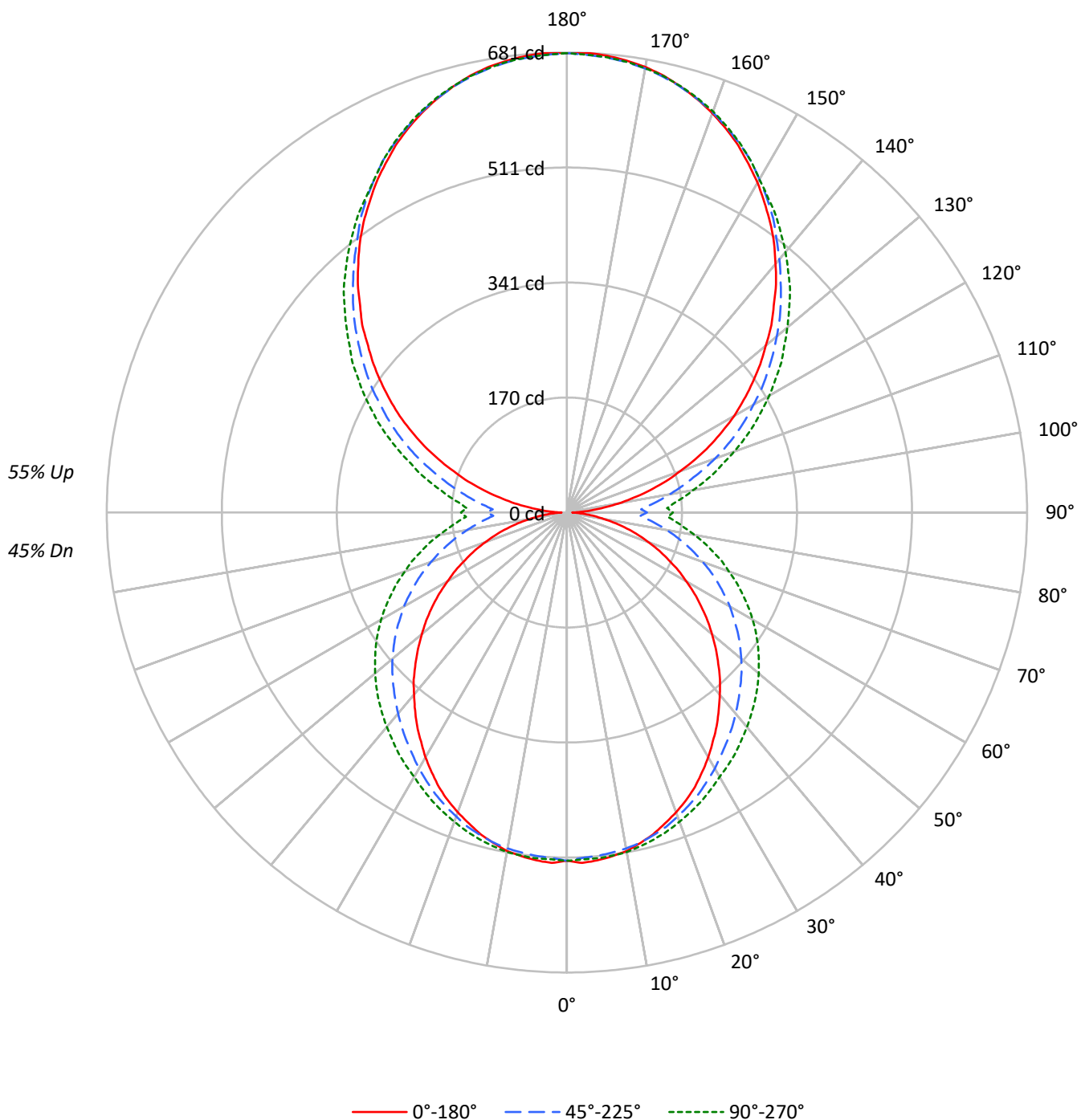
Lumens per Lamp: N/A
Luminaire Lumens: 3870.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	95	90	86	82	87	83	79	76	69	66	63	56	54	52	44	42	41
2	86	78	72	66	79	72	66	61	59	55	51	48	45	42	38	35	33
3	78	68	60	54	71	63	56	50	52	47	43	42	38	35	33	30	28
4	71	60	52	45	65	55	48	42	46	40	36	37	33	30	29	26	24
5	65	53	45	39	59	49	42	36	41	35	31	33	29	25	26	23	20
6	60	48	39	33	55	44	36	31	37	31	26	30	25	22	24	20	18
7	56	43	35	29	51	40	32	27	33	27	23	27	23	19	21	18	16
8	51	39	31	25	47	36	29	24	30	24	20	25	20	17	20	16	14
9	48	35	28	23	44	33	26	21	27	22	18	23	18	15	18	15	12
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	14	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8160	8160	8160
5°	8197	7812	7768
10°	8142	7541	7431
15°	8027	7262	7087
20°	7883	6968	6758
25°	7740	6686	6461
30°	7539	6400	6167
35°	7336	6125	5951
40°	7122	5886	5736
45°	6919	5670	5549
50°	6701	5470	5365
55°	6470	5260	5177
60°	6190	5039	4979
65°	5898	4784	4752
70°	5565	4513	4508
75°	5141	4240	4276
80°	4471	3958	4036
85°	3800	3690	3831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6919 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.3
10°-20°	140.2	3.6
20°-30°	212.4	5.5
30°-40°	258.6	6.7
40°-50°	278.2	7.2
50°-60°	270.2	7.0
60°-70°	236.0	6.1
70°-80°	181.6	4.7
80°-90°	123.6	3.2
90°-100°	126.0	3.3
100°-110°	195.0	5.0
110°-120°	269.3	7.0
120°-130°	323.5	8.4
130°-140°	347.2	9.0
140°-150°	332.8	8.6
150°-160°	277.9	7.2
160°-170°	184.3	4.8
170°-180°	64.4	1.7
0°-30°	401.4	10.4
0°-40°	660.0	17.1
0°-60°	1208.5	31.2
0°-90°	1749.7	45.2
90°-120°	590.3	15.3
90°-150°	1593.8	41.2
90°-180°	2120.0	54.8
0°-180°	3870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	517	515	510	515	514	49
15°	493	495	495	501	501	139
25°	448	454	460	469	471	206
35°	386	399	413	430	435	241
45°	317	337	363	386	394	245
55°	243	270	309	336	345	217
65°	166	202	246	277	287	165
75°	92	134	182	214	223	97
85°	27	73	121	152	163	28
90°	8	58	119	147	157	7
95°	36	77	123	151	159	38
105°	127	150	190	218	226	135
115°	232	244	277	298	305	230
125°	336	341	363	381	387	300
135°	433	439	448	463	467	335
145°	524	528	532	537	538	328
155°	600	601	603	606	604	276
165°	652	652	652	656	653	184
175°	679	677	676	680	676	64
180°	680	680	680	680	680	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	515.5	515.5	515.5	515.5	515.5
2.5°	519.2	517.0	511.8	515.5	514.0
5°	517.0	514.8	510.3	514.8	514.0
7.5°	513.3	511.8	508.0	513.3	512.5
10°	508.8	507.3	505.0	511.0	510.3
12.5°	501.3	502.1	500.6	506.5	505.8
15°	493.1	494.6	494.6	501.3	500.6
17.5°	482.6	485.6	487.9	494.6	494.6
20°	472.2	475.9	478.9	487.1	487.1
22.5°	461.0	465.5	469.9	478.2	479.6
25°	448.3	453.5	460.2	469.2	471.4
27.5°	433.3	441.5	449.0	460.2	461.7
30°	418.4	428.1	437.8	449.8	452.0
32.5°	401.9	413.2	425.1	439.3	443.8
35°	386.3	399.0	413.2	429.6	434.8
37.5°	369.1	383.3	401.2	419.1	424.4
40°	351.9	368.3	388.5	407.9	414.6
42.5°	335.5	351.9	375.8	397.5	404.2
45°	316.8	336.9	363.1	386.3	393.7
47.5°	298.8	320.5	350.4	374.3	382.5
50°	280.2	303.3	336.9	362.4	370.6
52.5°	262.2	286.9	322.8	348.9	357.9
55°	242.8	269.7	308.6	335.5	345.2
57.5°	224.1	254.0	292.9	322.0	331.7
60°	204.0	236.1	278.7	307.1	317.5
62.5°	186.0	219.7	262.2	292.9	302.6
65°	165.9	202.5	246.5	277.2	286.9
67.5°	147.9	186.0	230.9	261.5	271.9
70°	128.5	167.4	213.7	245.8	254.8
72.5°	110.6	150.9	198.0	229.4	240.6
75°	91.9	133.7	181.5	213.7	223.4
77.5°	74.0	117.3	165.9	198.0	208.4
80°	56.0	101.6	150.2	181.5	192.0
82.5°	41.1	85.9	135.2	166.6	176.3
85°	26.9	73.2	121.0	152.4	162.9
87.5°	16.4	61.3	109.1	139.7	149.4
90°	8.1	58.3	118.7	147.4	157.0
92.5°	19.3	63.5	109.7	139.4	148.4
95°	35.8	76.7	122.6	151.0	158.9
97.5°	55.1	92.5	138.1	165.7	174.7
100°	78.1	110.4	153.9	181.6	189.2
102.5°	101.5	129.5	172.2	199.7	207.3
105°	127.1	150.5	190.5	217.8	226.0
107.5°	153.5	173.8	211.1	237.0	242.4
110°	178.0	196.4	233.0	256.9	263.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	205.6	220.9	254.7	276.9	284.0
115°	232.5	244.2	276.6	298.4	305.0
117.5°	258.7	269.3	297.8	318.5	324.3
120°	285.7	293.3	318.6	339.5	346.0
122.5°	310.3	316.9	341.6	360.1	365.6
125°	335.5	340.6	362.8	381.3	387.4
127.5°	360.7	366.2	384.1	400.5	405.5
130°	384.2	390.9	405.4	422.3	425.9
132.5°	410.6	415.6	427.4	441.7	446.0
135°	432.8	439.1	447.7	462.9	467.1
137.5°	458.0	463.2	468.1	481.8	484.7
140°	480.4	484.9	489.2	501.1	503.3
142.5°	503.4	507.8	509.5	519.1	520.5
145°	524.5	528.5	531.9	537.0	538.4
147.5°	544.0	549.1	551.4	553.3	553.3
150°	564.1	567.5	569.8	571.5	569.8
152.5°	581.8	585.3	588.2	590.5	588.2
155°	599.6	601.4	603.1	605.9	604.2
157.5°	615.1	616.3	617.4	621.4	618.6
160°	628.9	630.0	630.6	634.1	631.8
162.5°	641.5	641.5	642.1	646.1	643.2
165°	652.4	651.9	651.9	655.9	653.0
167.5°	662.2	660.5	660.5	664.5	661.6
170°	669.6	667.9	667.3	671.4	667.9
172.5°	674.8	673.1	672.5	676.5	673.1
175°	678.8	677.1	676.0	680.0	676.5
177.5°	681.1	679.4	678.2	681.7	678.2
180°	680.0	680.0	680.0	680.0	680.0

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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	12.05	12.91	13.03	13.92	15.25	15.12	15.99	16.11	16.99	18.33
	3H	13.51	14.29	14.51	15.30	16.66	17.71	18.49	18.71	19.51	20.86
	4H	13.98	14.73	14.99	15.75	17.11	18.97	19.71	19.98	20.73	22.09
	6H	14.27	14.96	15.29	15.98	17.35	20.26	20.95	21.28	21.97	23.35
	8H	14.33	14.98	15.35	16.02	17.39	20.92	21.58	21.95	22.62	23.99
	12H	14.34	14.97	15.38	16.00	17.40	21.65	22.27	22.68	23.31	24.70
4H	2H	13.10	13.84	14.11	14.86	16.22	15.45	16.20	16.47	17.21	18.58
	3H	14.81	15.44	15.83	16.48	17.86	18.25	18.87	19.27	19.92	21.30
	4H	15.43	16.01	16.46	17.05	18.44	19.66	20.24	20.69	21.28	22.68
	6H	15.84	16.35	16.88	17.41	18.80	21.13	21.63	22.17	22.70	24.09
	8H	15.95	16.43	16.99	17.48	18.89	21.89	22.36	22.93	23.41	24.82
	12H	16.00	16.43	17.06	17.50	18.91	22.72	23.15	23.78	24.22	25.63
8H	4H	16.22	16.69	17.26	17.75	19.16	19.81	20.28	20.85	21.33	22.74
	6H	16.85	17.25	17.92	18.34	19.75	21.44	21.83	22.50	22.93	24.33
	8H	17.07	17.43	18.15	18.50	19.93	22.33	22.68	23.40	23.76	25.18
	12H	17.21	17.52	18.29	18.59	20.06	23.32	23.63	24.40	24.71	26.17
12H	4H	16.42	16.85	17.48	17.92	19.33	19.78	20.21	20.84	21.28	22.69
	6H	17.19	17.54	18.26	18.62	20.04	21.46	21.81	22.53	22.89	24.32
	8H	17.49	17.80	18.57	18.88	20.34	22.39	22.70	23.47	23.78	25.24