

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: P998531

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998531
REPORT IS A COMBINATION OF REPORTS P984274 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-D
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

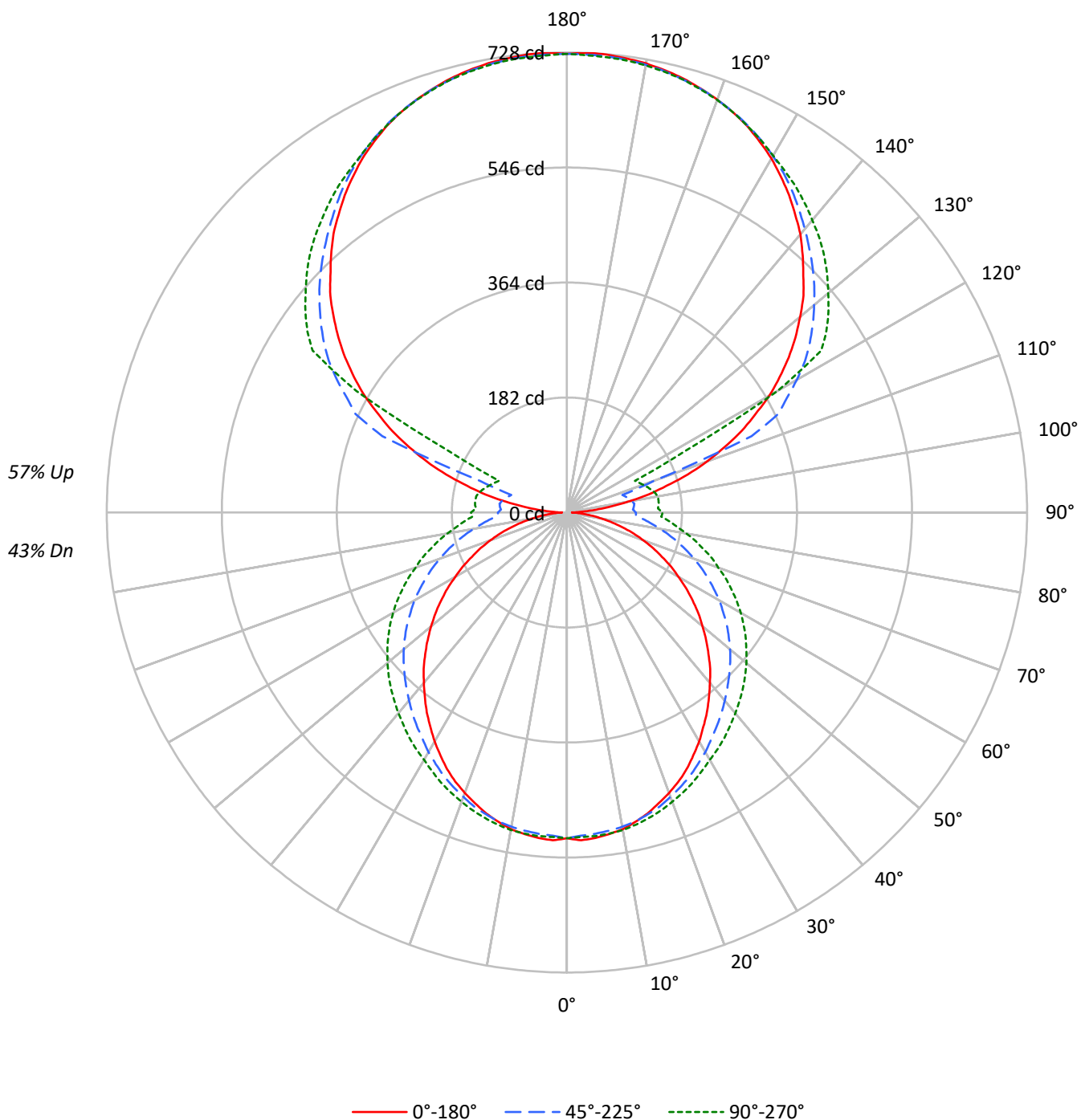
Lumens per Lamp: N/A
Luminaire Lumens: 4096.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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								

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.2
10°-20°	140.2	3.4
20°-30°	212.4	5.2
30°-40°	258.6	6.3
40°-50°	278.2	6.8
50°-60°	270.2	6.6
60°-70°	236.0	5.8
70°-80°	181.6	4.4
80°-90°	122.9	3.0
90°-100°	107.9	2.6
100°-110°	150.5	3.7
110°-120°	277.1	6.8
120°-130°	415.0	10.1
130°-140°	426.3	10.4
140°-150°	389.0	9.5
150°-160°	311.5	7.6
160°-170°	200.7	4.9
170°-180°	69.1	1.7
0°-30°	401.4	9.8
0°-40°	660.0	16.1
0°-60°	1208.5	29.5
0°-90°	1749.0	42.7
90°-120°	535.4	13.1
90°-150°	1765.7	43.1
90°-180°	2347.0	57.3
0°-180°	4096.0	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					

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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	30			

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	269.3	290.6	316.1	113.6	123.4
115°	305.0	322.1	368.8	148.1	118.6
117.5°	335.2	351.7	392.0	339.3	209.2
120°	369.8	380.7	420.0	447.2	384.7
122.5°	399.2	408.4	446.5	469.9	477.1
125°	428.5	435.3	469.2	493.0	501.3
127.5°	455.8	462.3	490.4	514.3	521.6
130°	481.5	489.1	510.6	534.4	539.7
132.5°	507.8	513.8	530.9	552.7	558.2
135°	529.0	537.4	549.6	570.6	575.5
137.5°	552.1	558.4	567.5	586.9	590.6
140°	574.7	578.2	585.5	602.1	604.0
142.5°	593.6	596.6	603.4	616.6	617.7
145°	612.9	612.3	621.3	629.4	630.5
147.5°	630.2	628.6	637.5	640.9	641.1
150°	647.0	643.3	651.7	654.9	652.3
152.5°	661.2	657.0	664.9	668.0	664.3
155°	674.8	670.1	676.4	679.6	675.4
157.5°	685.9	681.7	686.4	690.1	685.9
160°	695.3	692.2	695.3	698.5	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	11.80	12.64	12.81	13.66	15.03	14.87	15.71	15.88	16.74	18.11
	3H	13.26	14.02	14.27	15.05	16.44	17.46	18.22	18.48	19.25	20.64
	4H	13.73	14.45	14.76	15.49	16.88	18.71	19.44	19.74	20.47	21.87
	6H	14.02	14.68	15.06	15.72	17.13	20.01	20.68	21.05	21.72	23.12
	8H	14.07	14.71	15.12	15.77	17.17	20.67	21.31	21.71	22.36	23.77
	12H	14.09	14.70	15.14	15.75	17.18	21.39	22.00	22.44	23.05	24.48
4H	2H	12.85	13.57	13.88	14.60	16.00	15.20	15.92	16.24		