

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: P1011572

Luminaire Tested: S123DIP-B340D365UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011572
REPORT IS A COMBINATION OF REPORTS P989779 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D365UB35-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

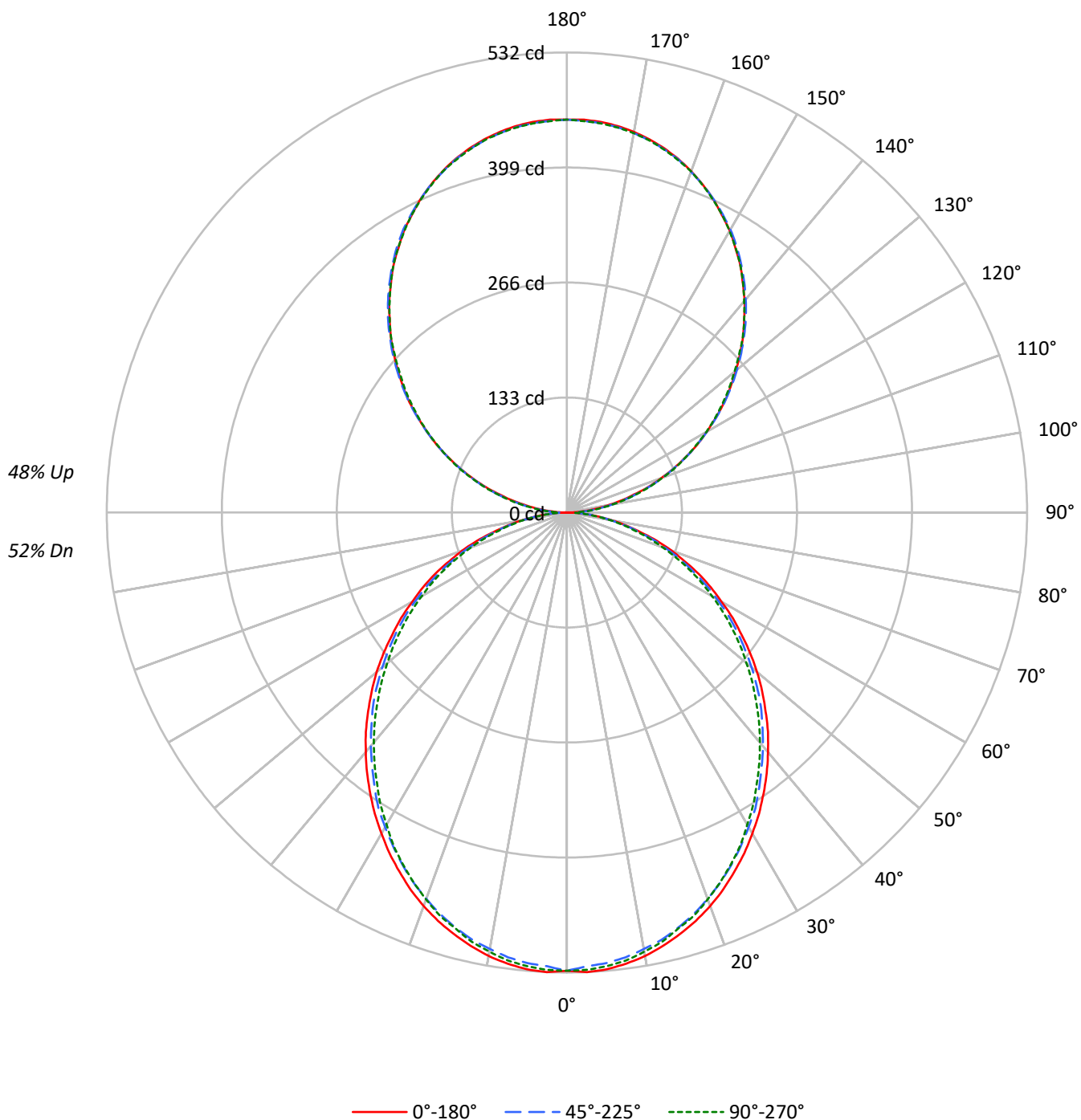
Lumens per Lamp: N/A
Luminaire Lumens: 2639.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58
1	98	94	90	86	91	87	84	81	74	72	69	62	61	59	51	50	49
2	89	82	76	71	82	76	71	66	65	61	57	55	52	49	45	43	41
3	82	72	65	59	75	67	60	55	57	52	48	48	45	42	40	37	35
4	75	64	56	50	69	59	52	47	51	45	41	43	39	36	36	33	30
5	68	57	49	43	63	53	46	40	45	40	35	39	34	31	32	29	26
6	63	51	43	37	58	47	40	35	41	35	31	35	30	27	29	26	23
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	24	21	18
9	50	38	31	25	47	36	29	24	31	26	22	27	22	19	23	19	17
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5704	5704	5704
5°	5717	5506	5499
10°	5667	5321	5265
15°	5588	5127	5012
20°	5497	4911	4761
25°	5380	4684	4492
30°	5253	4449	4210
35°	5119	4209	3928
40°	4978	3957	3653
45°	4824	3712	3364
50°	4667	3438	3074
55°	4466	3153	2780
60°	4259	2839	2468
65°	4064	2498	2143
70°	3784	2120	1762
75°	3378	1680	1368
80°	2921	1180	967
85°	2276	635	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	1.9
10°-20°	141.0	5.3
20°-30°	208.3	7.9
30°-40°	243.3	9.2
40°-50°	244.6	9.3
50°-60°	214.8	8.1
60°-70°	160.0	6.1
70°-80°	91.1	3.5
80°-90°	26.9	1.0
90°-100°	29.3	1.1
100°-110°	88.5	3.4
110°-120°	150.7	5.7
120°-130°	198.3	7.5
130°-140°	222.9	8.4
140°-150°	219.1	8.3
150°-160°	184.5	7.0
160°-170°	122.8	4.7
170°-180°	43.0	1.6
0°-30°	399.3	15.1
0°-40°	642.6	24.4
0°-60°	1102.0	41.8
0°-90°	1380.0	52.3
90°-120°	268.5	10.2
90°-150°	908.8	34.4
90°-180°	1259.0	47.7
0°-180°	2639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	530	528	523	528	527	50
15°	505	503	497	501	498	142
25°	458	456	450	450	449	211
35°	396	394	388	385	383	248
45°	325	323	317	312	309	251
55°	246	246	240	235	233	221
65°	168	166	161	158	156	166
75°	89	87	86	83	82	95
85°	24	23	23	22	22	25
90°	0	4	9	10	11	3
95°	21	24	26	28	28	23
105°	80	81	84	84	85	86
115°	152	153	152	152	152	150
125°	222	223	222	221	220	198
135°	288	290	290	288	288	222
145°	350	350	351	351	350	218
155°	400	400	400	402	399	184
165°	436	435	435	437	434	123
175°	453	452	452	454	452	43
180°	454	454	454	454	454	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	529.9	529.9	529.9	529.9	529.9
2.5°	532.1	530.3	525.3	529.9	529.4
5°	530.3	528.0	523.0	527.6	526.7
7.5°	526.2	523.9	518.9	523.0	522.6
10°	520.8	518.5	512.6	516.7	515.7
12.5°	513.5	511.6	506.2	508.9	508.5
15°	504.8	503.0	497.1	500.7	498.0
17.5°	495.2	493.0	487.0	489.8	488.9
20°	484.3	481.6	475.6	477.5	476.1
22.5°	472.0	469.3	463.3	464.7	462.9
25°	458.3	455.6	449.7	450.1	448.8
27.5°	444.2	441.5	435.1	435.6	434.2
30°	428.7	426.4	420.1	420.1	416.9
32.5°	413.2	410.0	405.5	402.3	400.9
35°	396.4	393.6	387.7	385.0	382.7
37.5°	379.5	375.9	369.9	366.8	365.4
40°	361.7	359.0	352.6	349.0	347.2
42.5°	344.0	340.8	334.4	330.8	328.9
45°	324.8	323.0	317.1	311.6	309.4
47.5°	306.2	303.4	298.0	292.5	290.7
50°	287.0	284.8	278.8	273.8	271.1
52.5°	267.0	265.6	259.2	255.1	252.4
55°	246.5	246.0	240.1	235.1	232.8
57.5°	227.3	225.5	221.0	216.4	213.7
60°	206.4	205.9	200.5	196.4	194.1
62.5°	187.7	186.3	180.9	176.8	175.4
65°	168.1	165.8	161.3	157.6	156.3
67.5°	147.2	145.3	141.7	138.5	136.7
70°	128.5	125.7	123.0	119.8	117.5
72.5°	108.9	107.1	103.9	101.1	100.2
75°	88.8	87.0	85.7	83.4	82.0
77.5°	71.1	70.2	68.3	66.5	66.5
80°	53.8	52.4	51.5	51.0	51.0
82.5°	36.9	36.9	36.9	36.0	35.5
85°	23.7	22.8	22.8	21.9	21.9
87.5°	11.8	10.5	10.0	9.6	9.6
90°	0.4	3.9	8.6	10.0	10.7
92.5°	10.7	12.9	15.0	16.1	15.3
95°	21.1	23.6	26.4	27.8	27.8
97.5°	34.6	36.4	38.6	40.3	40.0
100°	48.5	50.7	52.5	53.5	54.3
102.5°	64.6	65.7	68.2	69.2	68.9
105°	80.3	81.0	84.2	84.2	85.0
107.5°	98.9	99.2	100.7	101.7	101.4
110°	116.0	116.7	117.4	118.9	118.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	133.9	134.2	134.2	136.0	136.0
115°	151.7	152.8	152.1	152.4	152.1
117.5°	169.9	170.3	169.5	169.5	168.5
120°	186.7	188.8	187.0	186.7	186.0
122.5°	204.2	205.6	204.9	203.8	202.7
125°	222.0	223.1	222.4	220.9	219.5
127.5°	238.4	240.6	239.9	237.7	236.3
130°	254.9	257.7	256.6	255.2	252.7
132.5°	271.3	274.1	273.4	271.6	269.9
135°	288.1	290.2	289.8	288.4	287.7
137.5°	303.4	305.2	306.3	304.5	303.4
140°	319.5	321.3	321.6	321.3	318.8
142.5°	334.1	335.9	336.6	336.2	334.5
145°	349.5	350.2	351.2	350.9	349.5
147.5°	362.7	364.1	365.2	365.2	363.0
150°	376.6	377.3	378.0	378.0	375.9
152.5°	388.0	389.1	389.4	390.1	388.4
155°	400.1	400.1	400.5	401.9	399.4
157.5°	410.5	410.1	410.5	411.9	409.8
160°	420.1	419.4	419.4	421.2	419.8
162.5°	428.7	427.6	428.0	429.8	427.3
165°	435.8	434.8	434.8	436.9	434.4
167.5°	441.9	440.5	440.8	443.0	440.8
170°	446.9	445.5	445.5	448.0	445.5
172.5°	450.8	449.4	449.4	451.5	449.0
175°	453.3	451.9	451.9	454.0	451.5
177.5°	454.7	453.3	453.3	455.5	453.0
180°	454.4	454.4	454.4	454.4	454.4

(END OF REPORT)