

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: P1010581

Luminaire Tested: S123DIP-B340D365UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010581
REPORT IS A COMBINATION OF REPORTS P989755 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D365UB2750-4F0-XX-W2A-D_3500K
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

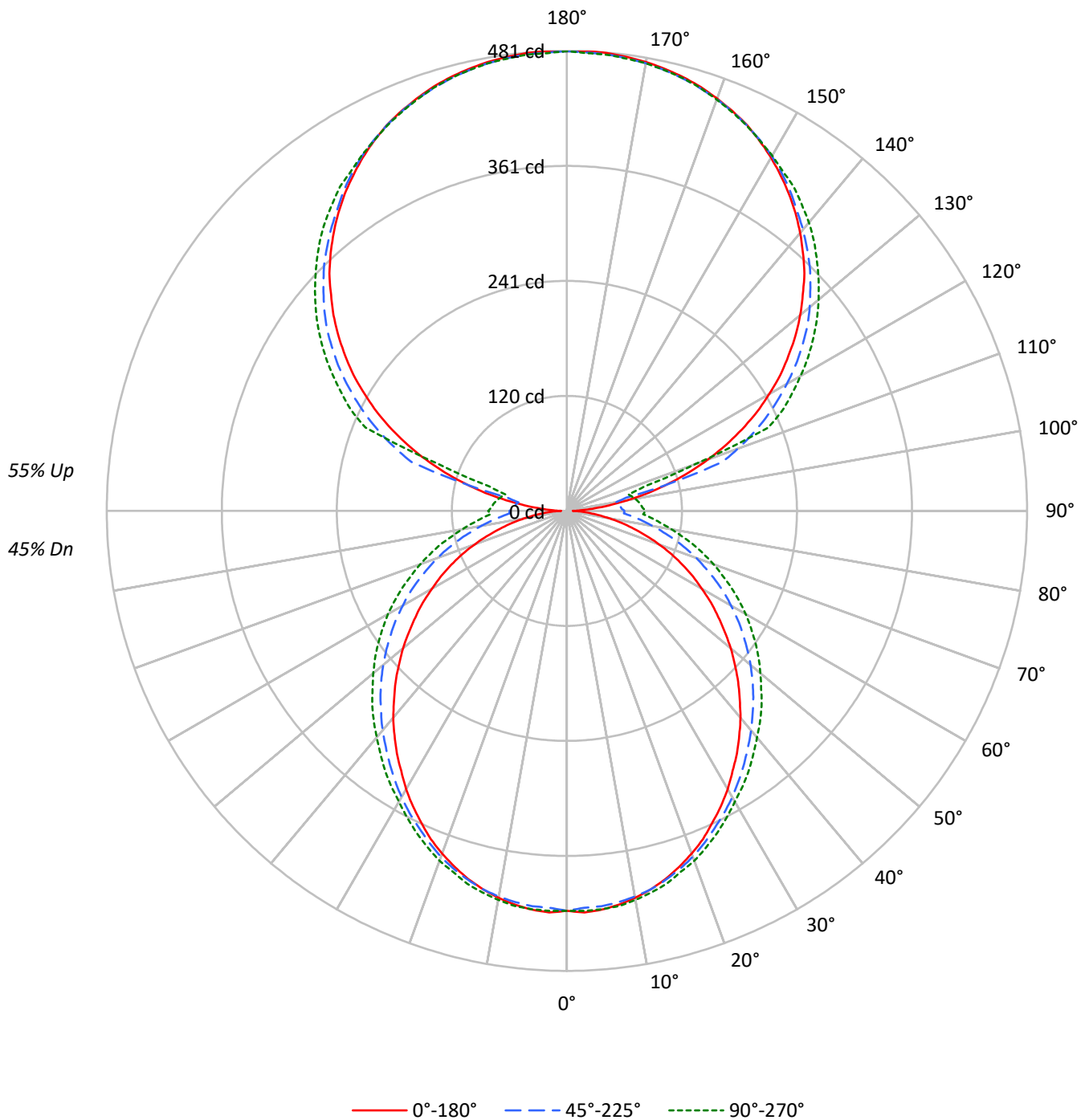
Lumens per Lamp: N/A
Luminaire Lumens: 2871.0 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	91	87	83	87	83	80	76	69	66	64	56	54	52	44	43	42
2	87	79	72	67	79	72	67	62	60	56	52	49	46	43	38	36	34
3	79	69	61	55	72	63	57	51	53	48	44	43	39	36	33	31	29
4	72	61	53	46	66	56	49	43	47	41	37	38	34	31	30	27	25
5	66	54	46	40	60	50	42	37	41	36	32	34	30	26	27	24	21
6	61	48	40	34	55	45	37	32	37	32	27	30	26	23	24	21	19
7	56	44	35	30	51	40	33	28	34	28	24	28	23	20	22	19	16
8	52	39	32	26	47	36	29	25	31	25	21	25	21	18	20	17	15
9	48	36	28	23	44	33	26	22	28	23	19	23	19	16	19	15	13
10	45	33	26	21	41	30	24	20	26	21	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4500	4500	4500
5°	4512	4368	4365
10°	4470	4250	4217
15°	4411	4119	4061
20°	4327	3973	3894
25°	4224	3809	3720
30°	4118	3660	3545
35°	4000	3505	3403
40°	3885	3363	3253
45°	3760	3225	3129
50°	3636	3089	2995
55°	3499	2948	2872
60°	3363	2805	2746
65°	3225	2652	2597
70°	3019	2481	2444
75°	2754	2286	2287
80°	2448	2088	2107
85°	2142	1927	1979

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3760 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	1.4
10°-20°	113.1	3.9
20°-30°	169.1	5.9
30°-40°	201.9	7.0
40°-50°	211.2	7.4
50°-60°	198.2	6.9
60°-70°	165.5	5.8
70°-80°	118.4	4.1
80°-90°	71.4	2.5
90°-100°	61.2	2.1
100°-110°	114.5	4.0
110°-120°	222.5	7.7
120°-130°	267.3	9.3
130°-140°	277.8	9.7
140°-150°	255.8	8.9
150°-160°	205.4	7.2
160°-170°	132.5	4.6
170°-180°	45.7	1.6
0°-30°	321.8	11.2
0°-40°	523.6	18.2
0°-60°	933.0	32.5
0°-90°	1288.3	44.9
90°-120°	398.1	13.9
90°-150°	1199.1	41.8
90°-180°	1583.0	55.1
0°-180°	2871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	418	418	415	418	418	40
15°	398	400	399	404	404	112
25°	360	364	366	372	372	166
35°	310	317	323	330	332	194
45°	253	264	276	284	288	195
55°	193	208	224	237	240	173
65°	133	151	171	185	189	132
75°	72	94	117	132	137	77
85°	22	45	69	85	89	23
90°	6	32	60	77	82	5
95°	27	30	56	73	77	30
105°	110	125	112	62	67	116
115°	202	209	229	244	249	199
125°	283	286	300	310	314	253
135°	351	353	359	369	370	270
145°	405	407	407	412	414	253
155°	445	444	445	447	444	205
165°	470	468	468	471	468	133
175°	481	479	479	482	479	46
180°	481	481	481	481	481	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	418.1	418.1	418.1	418.1	418.1
2.5°	420.3	419.0	415.3	419.0	418.5
5°	418.5	417.6	414.9	418.5	418.1
7.5°	415.3	415.3	412.6	417.1	416.7
10°	410.8	411.7	409.4	414.0	413.0
12.5°	405.3	406.7	405.3	409.4	408.5
15°	398.5	399.8	399.4	403.9	403.5
17.5°	390.3	393.0	392.6	396.7	395.7
20°	381.2	383.9	384.8	388.9	389.4
22.5°	371.6	374.3	375.7	381.2	380.7
25°	359.8	364.3	365.7	371.6	371.6
27.5°	348.4	353.4	356.1	361.1	361.6
30°	336.1	342.0	345.6	351.1	351.1
32.5°	322.4	329.3	334.3	340.2	341.6
35°	309.7	317.0	322.9	329.7	331.5
37.5°	296.0	304.2	311.0	318.8	320.1
40°	282.3	290.5	299.7	307.4	309.2
42.5°	267.3	277.8	287.4	296.0	298.7
45°	253.2	264.1	275.5	284.2	287.8
47.5°	238.2	250.5	263.2	272.8	275.5
50°	223.6	236.4	250.5	260.9	264.1
52.5°	208.1	221.8	237.7	248.6	252.7
55°	193.1	208.1	224.5	236.8	240.5
57.5°	178.5	194.0	211.8	224.1	228.2
60°	163.0	179.4	198.1	210.9	215.9
62.5°	148.5	165.3	185.3	198.1	202.7
65°	133.4	151.2	171.2	184.9	189.4
67.5°	118.4	137.1	157.1	172.1	175.8
70°	102.5	122.0	143.9	158.5	163.0
72.5°	87.9	107.5	130.2	145.3	149.8
75°	72.4	93.8	116.6	131.6	137.1
77.5°	59.2	80.6	103.4	119.3	123.4
80°	45.1	67.4	91.1	106.6	111.1
82.5°	32.8	55.6	79.7	95.2	99.7
85°	22.3	45.1	69.2	84.7	89.3
87.5°	13.7	36.4	59.7	75.1	79.7
90°	6.3	32.1	60.1	76.9	82.2
92.5°	13.7	31.1	57.1	74.6	79.0
95°	26.8	29.9	56.2	72.8	77.4
97.5°	44.2	50.5	53.8	70.3	75.2
100°	64.4	86.2	51.4	67.4	72.4
102.5°	87.5	104.9	63.3	64.2	69.6
105°	110.0	124.9	112.4	61.9	66.7
107.5°	133.5	146.3	170.3	127.6	84.9
110°	156.9	168.0	190.1	190.2	142.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	179.8	188.7	209.9	224.5	227.9
115°	201.9	209.4	229.0	243.6	248.6
117.5°	224.0	230.1	247.4	261.2	265.2
120°	243.9	249.4	265.5	278.8	282.0
122.5°	264.6	268.0	283.5	295.4	298.9
125°	282.7	285.6	300.2	310.4	314.4
127.5°	301.3	303.7	316.8	327.0	329.5
130°	318.4	320.8	331.3	341.5	343.4
132.5°	334.4	337.2	345.1	354.7	356.9
135°	351.1	352.9	359.3	368.6	369.7
137.5°	365.4	367.9	371.7	380.8	382.4
140°	379.3	381.5	383.8	392.2	393.6
142.5°	392.5	394.2	395.2	402.2	403.4
145°	404.7	406.7	407.4	411.7	413.6
147.5°	415.9	417.7	418.4	420.6	420.6
150°	426.7	427.7	428.4	429.2	429.0
152.5°	436.3	436.6	437.0	438.4	436.6
155°	445.2	444.5	444.9	446.6	444.5
157.5°	452.4	452.4	452.0	454.1	451.3
160°	458.8	458.4	458.1	460.2	457.7
162.5°	464.9	463.8	463.4	465.9	463.8
165°	469.5	468.4	468.1	470.9	468.4
167.5°	473.4	472.0	472.0	474.9	472.0
170°	476.6	475.2	475.2	478.1	475.2
172.5°	478.8	477.0	477.4	480.2	477.0
175°	480.6	478.8	479.1	481.6	478.8
177.5°	481.3	479.5	479.8	482.7	479.1
180°	480.6	480.6	480.6	480.6	480.6

(END OF REPORT)