

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: P1010579

Luminaire Tested: S123DIP-B340D365UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010579
REPORT IS A COMBINATION OF REPORTS P989753 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D365UB2750-4F0-XX-W2A-D_2700K
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

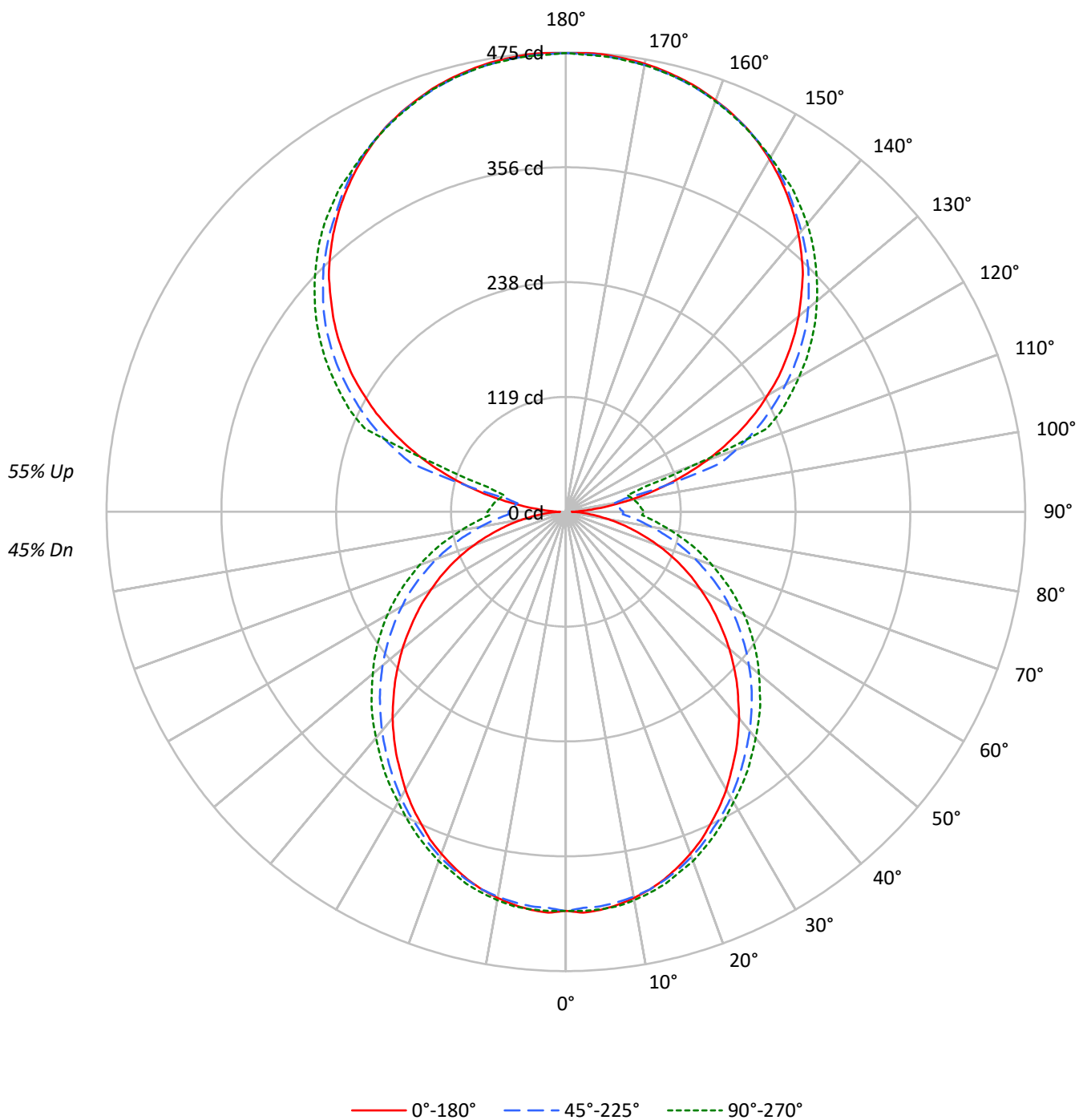
Lumens per Lamp: N/A
Luminaire Lumens: 2833.9 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
Input Voltage (V): 120
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°	4442	4442	4442
5°	4455	4312	4308
10°	4413	4196	4164
15°	4355	4066	4009
20°	4272	3923	3844
25°	4170	3760	3672
30°	4065	3614	3500
35°	3948	3460	3360
40°	3836	3319	3212
45°	3713	3184	3089
50°	3589	3049	2956
55°	3454	2910	2835
60°	3320	2769	2710
65°	3184	2617	2564
70°	2980	2450	2412
75°	2720	2256	2257
80°	2416	2061	2080
85°	2113	1902	1953

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3713 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	1.4
10°-20°	111.6	3.9
20°-30°	166.9	5.9
30°-40°	199.3	7.0
40°-50°	208.5	7.4
50°-60°	195.6	6.9
60°-70°	163.4	5.8
70°-80°	116.9	4.1
80°-90°	70.5	2.5
90°-100°	60.4	2.1
100°-110°	113.0	4.0
110°-120°	219.6	7.7
120°-130°	263.8	9.3
130°-140°	274.2	9.7
140°-150°	252.5	8.9
150°-160°	202.7	7.2
160°-170°	130.8	4.6
170°-180°	45.1	1.6
0°-30°	317.7	11.2
0°-40°	516.9	18.2
0°-60°	921.1	32.5
0°-90°	1271.8	44.9
90°-120°	393.0	13.9
90°-150°	1183.5	41.8
90°-180°	1562.0	55.1
0°-180°	2833.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	413	413	413	413	413	
5°	413	412	410	413	413	39
15°	393	395	394	399	398	111
25°	355	360	361	367	367	164
35°	306	313	319	326	327	191
45°	250	261	272	280	284	193
55°	191	206	222	234	237	171
65°	132	149	169	182	187	130
75°	72	93	115	130	135	76
85°	22	44	68	84	88	23
90°	6	32	59	76	81	5
95°	26	30	55	72	76	30
105°	109	123	111	61	66	115
115°	199	207	226	240	245	197
125°	279	282	296	306	310	249
135°	347	348	355	364	365	267
145°	399	401	402	406	408	250
155°	439	439	439	441	439	202
165°	463	462	462	465	462	131
175°	474	473	473	475	473	45
180°	474	474	474	474	474	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	412.7	412.7	412.7	412.7	412.7
2.5°	414.9	413.6	410.0	413.6	413.2
5°	413.2	412.3	409.6	413.2	412.7
7.5°	410.0	410.0	407.3	411.8	411.4
10°	405.5	406.4	404.2	408.7	407.8
12.5°	400.1	401.5	400.1	404.2	403.3
15°	393.4	394.7	394.3	398.8	398.3
17.5°	385.3	388.0	387.5	391.6	390.7
20°	376.3	379.0	379.9	383.9	384.4
22.5°	366.8	369.5	370.9	376.3	375.8
25°	355.2	359.7	361.0	366.8	366.8
27.5°	343.9	348.9	351.6	356.5	357.0
30°	331.8	337.6	341.2	346.6	346.6
32.5°	318.3	325.0	330.0	335.8	337.2
35°	305.7	312.9	318.7	325.5	327.3
37.5°	292.2	300.3	307.1	314.7	316.0
40°	278.7	286.8	295.8	303.5	305.3
42.5°	263.9	274.2	283.7	292.2	294.9
45°	250.0	260.7	272.0	280.5	284.1
47.5°	235.1	247.3	259.8	269.3	272.0
50°	220.7	233.3	247.3	257.6	260.7
52.5°	205.5	218.9	234.7	245.5	249.5
55°	190.6	205.5	221.6	233.8	237.4
57.5°	176.2	191.5	209.0	221.2	225.2
60°	160.9	177.1	195.6	208.1	213.1
62.5°	146.6	163.2	183.0	195.6	200.1
65°	131.7	149.3	169.0	182.5	187.0
67.5°	116.9	135.3	155.1	169.9	173.5
70°	101.2	120.5	142.1	156.4	160.9
72.5°	86.8	106.1	128.6	143.4	147.9
75°	71.5	92.6	115.1	129.9	135.3
77.5°	58.4	79.6	102.1	117.8	121.8
80°	44.5	66.5	89.9	105.2	109.7
82.5°	32.4	54.8	78.7	94.0	98.5
85°	22.0	44.5	68.3	83.6	88.1
87.5°	13.5	36.0	58.9	74.2	78.7
90°	6.2	31.8	59.3	76.0	81.2
92.5°	13.5	30.7	56.4	73.6	78.1
95°	26.4	29.5	55.4	71.8	76.3
97.5°	43.6	49.9	53.1	69.4	74.2
100°	63.6	85.0	50.7	66.5	71.4
102.5°	86.4	103.6	62.5	63.4	68.7
105°	108.6	123.3	110.9	61.1	65.9
107.5°	131.7	144.4	168.1	126.0	83.9
110°	154.9	165.9	187.7	187.8	141.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	177.5	186.3	207.2	221.6	225.0
115°	199.2	206.7	226.1	240.4	245.4
117.5°	221.0	227.1	244.2	257.8	261.7
120°	240.7	246.1	262.1	275.2	278.4
122.5°	261.2	264.5	279.8	291.5	295.1
125°	279.0	281.8	296.3	306.4	310.3
127.5°	297.3	299.7	312.7	322.8	325.3
130°	314.2	316.7	327.1	337.0	339.0
132.5°	330.0	332.9	340.6	350.1	352.3
135°	346.6	348.2	354.6	363.8	364.9
137.5°	360.7	363.0	366.9	375.9	377.4
140°	374.3	376.4	378.9	387.0	388.6
142.5°	387.3	389.1	390.1	397.0	398.2
145°	399.3	401.4	402.1	406.4	408.2
147.5°	410.6	412.3	413.0	415.0	415.1
150°	421.1	422.2	422.9	423.6	423.4
152.5°	430.6	431.0	431.3	432.8	431.0
155°	439.4	438.7	439.1	440.9	438.7
157.5°	446.5	446.5	446.1	448.3	445.4
160°	452.8	452.5	452.1	454.2	451.8
162.5°	458.8	457.8	457.4	459.9	457.8
165°	463.4	462.4	462.0	464.8	462.4
167.5°	467.3	465.9	465.9	468.7	465.9
170°	470.5	469.0	469.0	471.9	469.0
172.5°	472.6	470.8	471.2	474.0	470.8
175°	474.3	472.6	472.9	475.4	472.6
177.5°	475.0	473.3	473.6	476.5	472.9
180°	474.3	474.3	474.3	474.3	474.3

(END OF REPORT)