

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: P1011551

Luminaire Tested: S123DIP-B340D365UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011551
REPORT IS A COMBINATION OF REPORTS P989743 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D365UB27-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

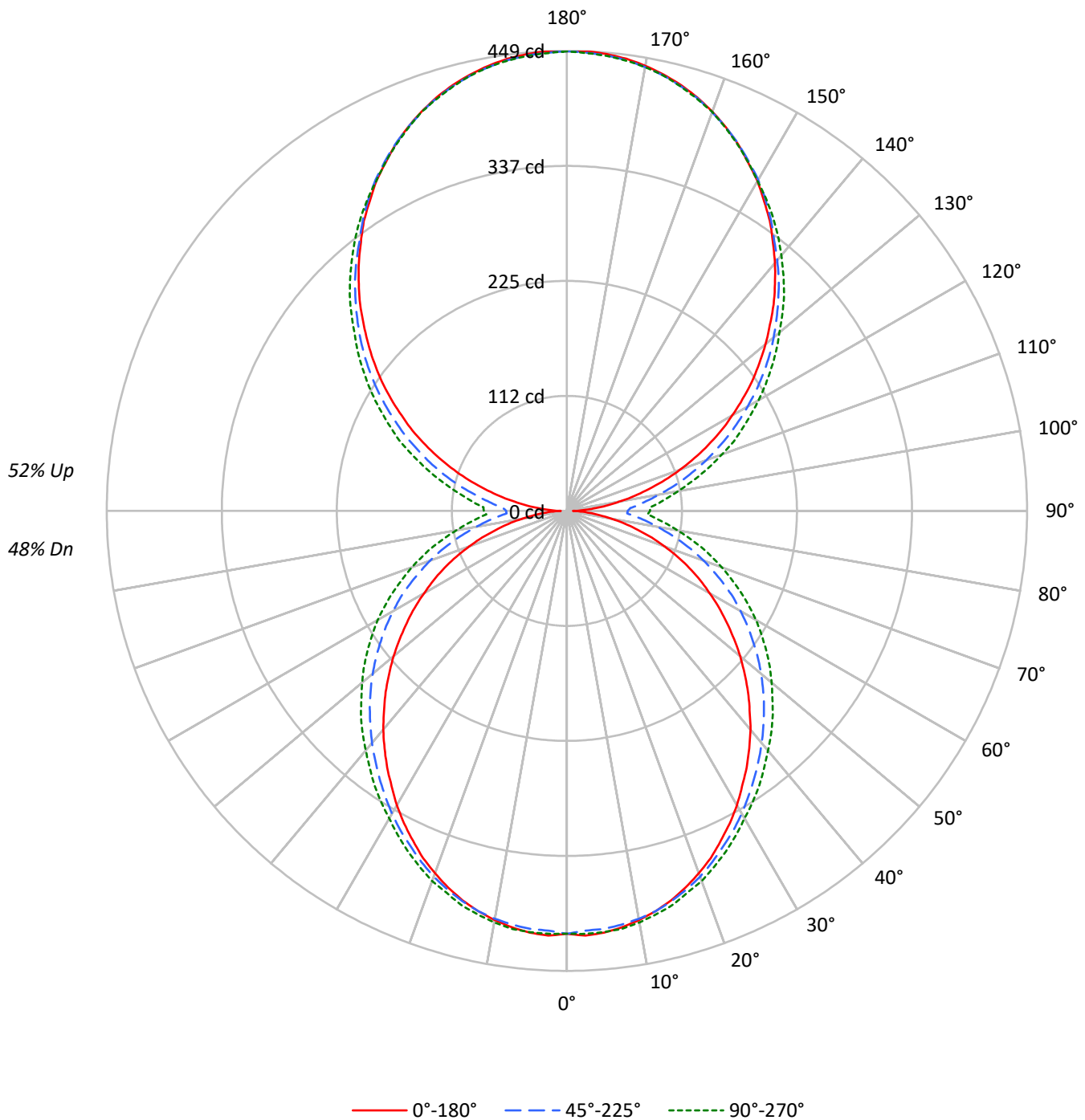
Lumens per Lamp: N/A
Luminaire Lumens: 2631.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55
1	96	92	87	84	88	84	81	77	71	68	66	58	56	54	47	45	44
2	87	79	73	67	80	73	67	63	61	57	53	51	47	45	40	38	36
3	79	69	62	56	73	64	57	52	54	49	44	44	41	37	36	33	30
4	73	61	53	47	66	57	49	44	48	42	38	39	35	32	32	29	26
5	66	54	46	40	61	50	43	37	42	37	32	35	31	27	28	25	22
6	61	49	40	34	56	45	38	32	38	32	28	32	27	24	26	22	20
7	56	44	36	30	52	41	33	28	35	29	25	29	24	21	23	20	17
8	52	40	32	26	48	37	30	25	31	26	22	26	22	19	21	18	16
9	49	36	29	24	45	34	27	22	29	23	19	24	20	17	20	16	14
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	13

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	1.5
10°-20°	111.6	4.2
20°-30°	166.9	6.3
30°-40°	199.3	7.6
40°-50°	208.5	7.9
50°-60°	195.6	7.4
60°-70°	163.4	6.2
70°-80°	116.9	4.4
80°-90°	70.5	2.7
90°-100°	72.6	2.8
100°-110°	119.5	4.5
110°-120°	170.2	6.5
120°-130°	208.0	7.9
130°-140°	225.5	8.6
140°-150°	217.5	8.3
150°-160°	182.1	6.9
160°-170°	121.2	4.6
170°-180°	42.5	1.6
0°-30°	317.7	12.1
0°-40°	516.9	19.6
0°-60°	921.1	35.0
0°-90°	1271.8	48.3
90°-120°	362.3	13.8
90°-150°	1013.3	38.5
90°-180°	1359.0	51.7
0°-180°	2631.0	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	6
95°	26	46	71	86	90	27
105°	83	94	117	130	134	88
115°	152	158	174	185	188	151
125°	220	222	234	242	244	197
135°	285	287	292	298	300	220
145°	345	346	347	350	350	216
155°	395	395	395	397	394	182
165°	430	429	429	431	429	121
175°	448	446	446	448	446	43
180°	449	449	449	449	449	

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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°	16.0	37.4	62.0	77.9	81.3
95°	25.7	45.8	70.6	85.9	90.4
97.5°	38.7	56.6	79.9	95.1	99.3
100°	51.9	68.4	90.9	105.0	110.2
102.5°	67.4	81.0	103.7	117.4	121.5
105°	82.9	94.4	116.9	129.5	134.3
107.5°	100.7	110.6	130.4	143.6	147.3
110°	117.2	126.0	144.7	157.9	160.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	134.9	141.5	158.6	171.6	175.7
115°	152.0	158.4	173.9	185.1	188.3
117.5°	169.9	173.9	188.5	199.3	201.8
120°	186.1	190.4	203.6	213.5	216.0
122.5°	203.4	205.7	218.9	227.7	229.9
125°	220.5	221.6	234.0	241.9	243.7
127.5°	236.7	238.4	248.9	255.8	257.6
130°	252.9	255.3	263.3	270.4	270.6
132.5°	268.7	271.6	277.5	283.9	285.3
135°	285.3	286.9	291.6	298.3	299.7
137.5°	300.5	301.7	306.0	311.4	312.6
140°	315.8	317.6	319.3	325.7	325.5
142.5°	330.3	331.6	332.3	337.8	338.3
145°	345.4	345.7	346.8	350.0	350.4
147.5°	358.1	359.5	360.5	361.8	361.5
150°	371.8	372.5	373.2	373.2	372.0
152.5°	383.1	384.1	384.5	385.2	383.4
155°	395.1	395.1	395.4	396.8	394.4
157.5°	405.3	404.9	405.3	406.7	404.6
160°	414.8	414.1	414.1	415.8	414.4
162.5°	423.2	422.2	422.5	424.3	421.8
165°	430.3	429.2	429.2	431.4	428.9
167.5°	436.3	434.9	435.2	437.3	435.2
170°	441.2	439.8	439.8	442.3	439.8
172.5°	445.1	443.7	443.7	445.8	443.3
175°	447.6	446.2	446.2	448.3	445.8
177.5°	449.0	447.6	447.6	449.7	447.2
180°	448.6	448.6	448.6	448.6	448.6

(END OF REPORT)