

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: P1011560

Luminaire Tested: S123DIP-B340D365UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011560
REPORT IS A COMBINATION OF REPORTS P989767 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D365UB30-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

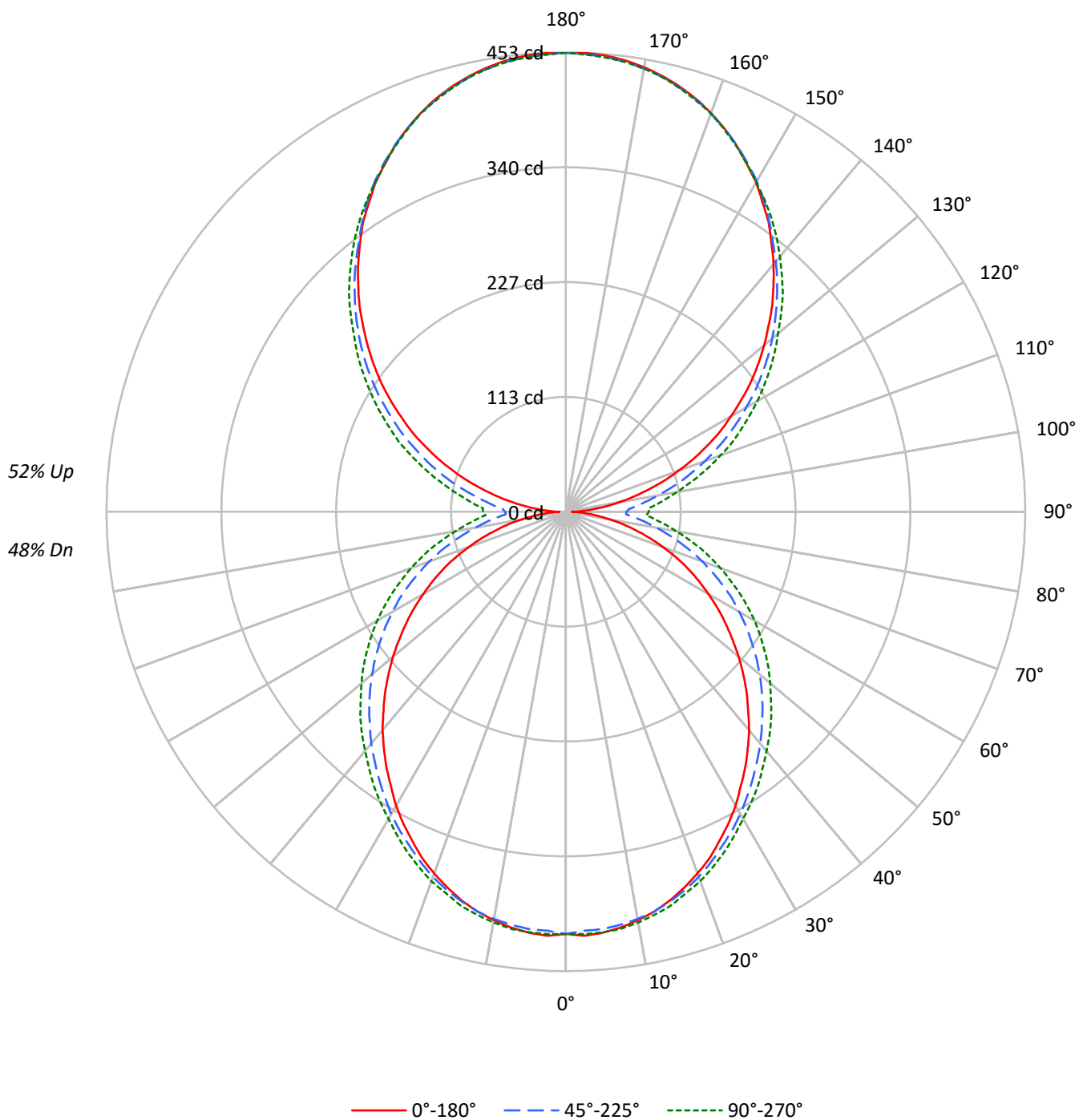
Lumens per Lamp: N/A
Luminaire Lumens: 2654.0 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	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°	4481	4481	4481
5°	4493	4349	4346
10°	4451	4232	4199
15°	4392	4102	4044
20°	4308	3957	3877
25°	4205	3793	3704
30°	4101	3646	3530
35°	3981	3490	3389
40°	3869	3349	3239
45°	3744	3211	3116
50°	3620	3075	2982
55°	3484	2936	2859
60°	3349	2793	2733
65°	3213	2641	2586
70°	3004	2470	2433
75°	2743	2276	2277
80°	2438	2079	2098
85°	2132	1919	1970

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3744 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	1.5
10°-20°	112.6	4.2
20°-30°	168.3	6.3
30°-40°	201.0	7.6
40°-50°	210.3	7.9
50°-60°	197.3	7.4
60°-70°	164.8	6.2
70°-80°	117.9	4.4
80°-90°	71.1	2.7
90°-100°	73.2	2.8
100°-110°	120.6	4.5
110°-120°	171.8	6.5
120°-130°	209.8	7.9
130°-140°	227.5	8.6
140°-150°	219.4	8.3
150°-160°	183.7	6.9
160°-170°	122.3	4.6
170°-180°	42.8	1.6
0°-30°	320.4	12.1
0°-40°	521.4	19.6
0°-60°	929.0	35.0
0°-90°	1282.8	48.3
90°-120°	365.5	13.8
90°-150°	1022.3	38.5
90°-180°	1371.0	51.7
0°-180°	2654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	417	416	413	417	416	40
15°	397	398	398	402	402	112
25°	358	363	364	370	370	165
35°	308	316	322	328	330	193
45°	252	263	274	283	287	194
55°	192	207	224	236	239	172
65°	133	150	170	184	189	131
75°	72	93	116	131	136	77
85°	22	45	69	84	89	23
90°	6	32	60	77	82	6
95°	26	46	71	87	91	27
105°	84	95	118	131	135	89
115°	153	160	176	187	190	152
125°	222	224	236	244	246	199
135°	288	290	294	301	302	222
145°	349	349	350	353	354	218
155°	398	398	399	400	398	183
165°	434	433	433	435	433	122
175°	452	450	450	452	450	43
180°	453	453	453	453	453	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	416.3	416.3	416.3	416.3	416.3
2.5°	418.5	417.2	413.6	417.2	416.7
5°	416.7	415.8	413.1	416.7	416.3
7.5°	413.6	413.6	410.8	415.4	414.9
10°	409.0	409.9	407.7	412.2	411.3
12.5°	403.6	404.9	403.6	407.7	406.7
15°	396.8	398.1	397.7	402.2	401.8
17.5°	388.6	391.3	390.9	395.0	394.1
20°	379.5	382.3	383.2	387.3	387.7
22.5°	370.0	372.7	374.1	379.5	379.1
25°	358.2	362.8	364.1	370.0	370.0
27.5°	346.9	351.9	354.6	359.6	360.0
30°	334.7	340.5	344.2	349.6	349.6
32.5°	321.0	327.8	332.8	338.7	340.1
35°	308.3	315.6	321.5	328.3	330.1
37.5°	294.7	302.9	309.7	317.4	318.8
40°	281.1	289.3	298.4	306.1	307.9
42.5°	266.2	276.6	286.1	294.7	297.5
45°	252.1	263.0	274.3	283.0	286.6
47.5°	237.2	249.4	262.1	271.6	274.3
50°	222.6	235.3	249.4	259.8	263.0
52.5°	207.2	220.8	236.7	247.6	251.7
55°	192.3	207.2	223.6	235.8	239.4
57.5°	177.8	193.2	210.9	223.1	227.2
60°	162.3	178.7	197.3	209.9	214.9
62.5°	147.8	164.6	184.6	197.3	201.8
65°	132.9	150.5	170.5	184.1	188.6
67.5°	117.9	136.5	156.4	171.4	175.0
70°	102.0	121.5	143.3	157.8	162.3
72.5°	87.5	107.0	129.7	144.7	149.2
75°	72.1	93.4	116.1	131.0	136.5
77.5°	58.9	80.3	102.9	118.8	122.9
80°	44.9	67.1	90.7	106.1	110.6
82.5°	32.6	55.3	79.4	94.8	99.3
85°	22.2	44.9	68.9	84.3	88.9
87.5°	13.6	36.3	59.4	74.8	79.4
90°	6.3	32.0	59.7	76.7	81.9
92.5°	16.1	37.7	62.5	78.6	82.0
95°	26.0	46.2	71.2	86.6	91.2
97.5°	39.0	57.2	80.6	96.0	100.1
100°	52.5	69.1	91.8	105.9	111.1
102.5°	68.0	81.7	104.6	118.4	122.6
105°	83.6	95.2	117.9	130.6	135.4
107.5°	101.7	111.5	131.6	144.8	148.6
110°	118.2	127.2	146.0	159.2	162.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	136.0	142.8	160.0	173.1	177.2
115°	153.4	159.9	175.5	186.7	190.0
117.5°	171.5	175.5	190.2	201.1	203.6
120°	187.7	192.2	205.3	215.4	217.8
122.5°	205.2	207.5	220.9	229.8	231.8
125°	222.5	223.6	236.0	244.1	245.9
127.5°	238.9	240.5	251.1	258.1	259.9
130°	255.2	257.6	265.6	272.8	273.0
132.5°	271.1	273.9	280.0	286.5	287.8
135°	287.8	289.5	294.1	300.9	302.5
137.5°	303.1	304.5	308.6	314.2	315.4
140°	318.7	320.5	322.1	328.6	328.4
142.5°	333.3	334.6	335.3	340.8	341.3
145°	348.6	348.8	349.8	353.1	353.5
147.5°	361.2	362.6	363.7	365.1	364.8
150°	375.1	375.8	376.5	376.5	375.3
152.5°	386.5	387.5	387.9	388.6	386.8
155°	398.5	398.5	398.9	400.3	397.8
157.5°	408.9	408.5	408.9	410.3	408.1
160°	418.5	417.7	417.7	419.5	418.1
162.5°	427.0	425.9	426.3	428.1	425.6
165°	434.1	433.0	433.0	435.2	432.7
167.5°	440.1	438.7	439.1	441.2	439.1
170°	445.1	443.7	443.7	446.2	443.7
172.5°	449.0	447.6	447.6	449.7	447.3
175°	451.5	450.1	450.1	452.2	449.7
177.5°	452.9	451.5	451.5	453.7	451.2
180°	452.6	452.6	452.6	452.6	452.6

(END OF REPORT)