

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: P1011624

Luminaire Tested: S123DIP-B340D585UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011624
REPORT IS A COMBINATION OF REPORTS P989849 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D585UB40-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

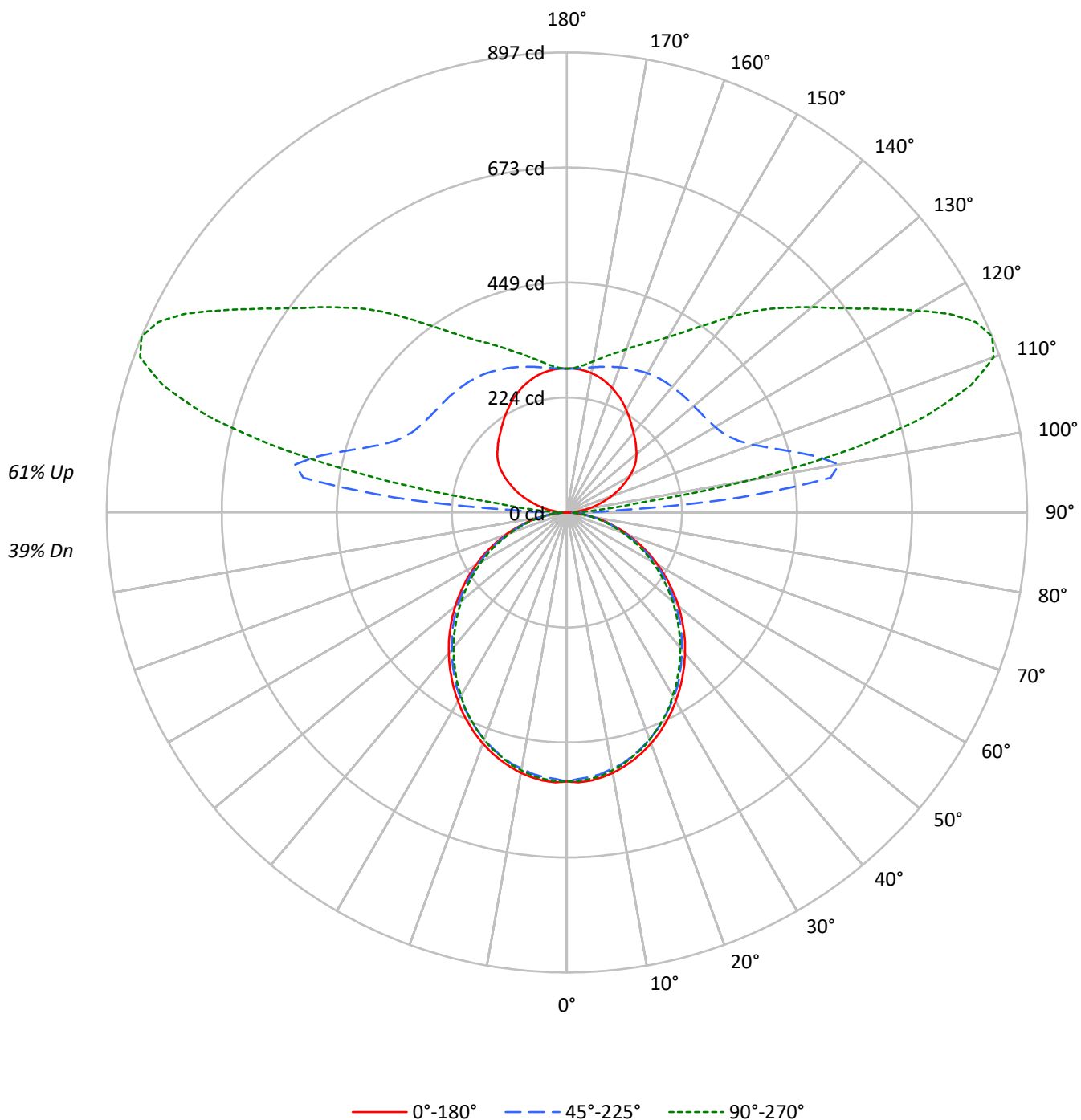
Lumens per Lamp: N/A
Luminaire Lumens: 3482.9 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39
2	87	79	73	68	79	72	67	63	59	56	52	47	45	42	36	34	33
3	79	70	63	57	72	64	57	52	52	48	44	42	38	36	32	30	28
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16
8	52	40	33	27	47	37	30	25	31	25	22	25	21	18	19	17	15
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5646	5646	5646
5°	5659	5450	5442
10°	5610	5266	5212
15°	5531	5074	4961
20°	5442	4861	4713
25°	5326	4637	4446
30°	5200	4404	4166
35°	5066	4167	3888
40°	4928	3917	3615
45°	4775	3674	3329
50°	4620	3403	3043
55°	4421	3121	2752
60°	4216	2809	2443
65°	4022	2472	2121
70°	3746	2100	1745
75°	3344	1662	1355
80°	2888	1169	958
85°	2257	627	479

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4775 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	1.4
10°-20°	139.6	4.0
20°-30°	206.2	5.9
30°-40°	240.8	6.9
40°-50°	242.1	7.0
50°-60°	212.7	6.1
60°-70°	158.4	4.5
70°-80°	90.1	2.6
80°-90°	27.2	0.8
90°-100°	159.5	4.6
100°-110°	445.8	12.8
110°-120°	434.7	12.5
120°-130°	346.2	9.9
130°-140°	273.3	7.8
140°-150°	203.9	5.9
150°-160°	142.2	4.1
160°-170°	83.5	2.4
170°-180°	27.2	0.8
0°-30°	395.3	11.3
0°-40°	636.1	18.3
0°-60°	1090.8	31.3
0°-90°	1366.5	39.2
90°-120°	1040.1	29.9
90°-150°	1863.4	53.5
90°-180°	2116.0	60.8
0°-180°	3482.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	525	523	518	522	521	50
15°	500	498	492	496	493	141
25°	454	451	445	446	444	209
35°	392	390	384	381	379	245
45°	322	320	314	308	306	248
55°	244	244	238	233	230	219
65°	166	164	160	156	155	164
75°	88	86	85	82	81	94
85°	24	22	22	22	22	25
90°	1	7	14	16	16	3
95°	19	63	337	98	66	20
105°	66	97	457	799	723	70
115°	116	145	350	766	879	115
125°	162	191	326	591	693	144
135°	190	226	322	487	562	147
145°	216	248	318	399	439	136
155°	246	265	307	349	364	113
165°	269	276	294	312	318	76
175°	280	280	282	286	286	27
180°	281	281	281	281	281	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	524.5	524.5	524.5	524.5	524.5
2.5°	526.7	524.9	520.0	524.5	524.0
5°	524.9	522.7	517.7	522.2	521.3
7.5°	520.9	518.6	513.7	517.7	517.3
10°	515.5	513.2	507.3	511.4	510.5
12.5°	508.2	506.4	501.0	503.7	503.3
15°	499.7	497.9	492.0	495.6	492.9
17.5°	490.2	488.0	482.1	484.8	483.9
20°	479.4	476.7	470.8	472.6	471.3
22.5°	467.2	464.5	458.6	460.0	458.2
25°	453.7	451.0	445.1	445.6	444.2
27.5°	439.7	437.0	430.7	431.1	429.8
30°	424.4	422.1	415.8	415.8	412.6
32.5°	409.0	405.9	401.4	398.2	396.9
35°	392.3	389.6	383.8	381.1	378.8
37.5°	375.7	372.1	366.2	363.0	361.7
40°	358.1	355.4	349.1	345.4	343.6
42.5°	340.5	337.3	331.0	327.4	325.6
45°	321.5	319.7	313.9	308.5	306.2
47.5°	303.1	300.3	294.9	289.5	287.7
50°	284.1	281.9	276.0	271.0	268.3
52.5°	264.3	262.9	256.6	252.5	249.8
55°	244.0	243.5	237.7	232.7	230.4
57.5°	225.0	223.2	218.7	214.2	211.5
60°	204.3	203.8	198.4	194.4	192.1
62.5°	185.8	184.4	179.0	175.0	173.6
65°	166.4	164.2	159.6	156.0	154.7
67.5°	145.7	143.9	140.3	137.1	135.3
70°	127.2	124.5	121.8	118.6	116.4
72.5°	107.8	106.0	102.8	100.1	99.2
75°	87.9	86.1	84.8	82.5	81.2
77.5°	70.4	69.5	67.6	65.8	65.8
80°	53.2	51.9	51.0	50.5	50.5
82.5°	36.5	36.5	36.5	35.6	35.2
85°	23.5	22.5	22.5	21.6	21.6
87.5°	11.7	10.4	9.9	9.5	9.5
90°	1.1	6.8	14.2	15.9	16.5
92.5°	8.5	34.1	105.7	36.1	30.1
95°	19.3	62.8	337.0	98.3	65.9
97.5°	30.7	71.9	518.2	247.2	135.2
100°	42.0	79.2	538.1	517.0	356.3
102.5°	54.0	87.8	501.2	692.4	564.2
105°	65.9	97.4	456.8	798.9	722.8
107.5°	78.4	108.8	417.6	845.8	826.2
110°	92.1	120.4	385.3	847.2	885.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.6	132.6	363.7	815.1	897.2
115°	116.5	145.2	349.5	766.2	879.0
117.5°	128.4	157.1	339.8	714.0	839.3
120°	140.9	169.0	333.5	664.5	787.0
122.5°	151.7	180.4	329.6	625.6	738.1
125°	161.9	191.2	326.2	591.0	693.2
127.5°	169.9	201.4	324.5	562.6	654.6
130°	177.3	210.6	322.7	536.4	622.8
132.5°	183.0	218.8	322.2	512.0	591.5
135°	189.8	226.4	321.6	486.7	562.0
137.5°	196.0	232.7	320.5	462.8	530.7
140°	202.3	238.4	319.9	439.5	497.8
142.5°	209.1	243.4	318.8	418.2	467.1
145°	216.5	248.0	317.6	399.2	439.2
147.5°	223.9	252.8	315.9	384.4	415.4
150°	231.3	256.8	313.7	371.3	394.9
152.5°	238.7	261.1	310.8	360.0	377.9
155°	246.0	265.4	307.4	349.4	364.2
157.5°	251.7	269.0	304.6	339.2	351.2
160°	258.5	272.2	301.2	329.8	338.7
162.5°	263.7	274.4	297.7	321.0	327.3
165°	268.8	276.4	294.3	312.2	317.6
167.5°	272.7	278.2	290.9	304.5	308.0
170°	276.2	279.0	287.5	297.8	299.5
172.5°	278.4	279.8	284.7	291.8	291.5
175°	280.1	280.4	282.4	286.4	285.8
177.5°	281.3	280.7	280.7	283.0	281.8
180°	280.7	280.7	280.7	280.7	280.7

(END OF REPORT)