

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: P1011622

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011622
REPORT IS A COMBINATION OF REPORTS P989847 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-F
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

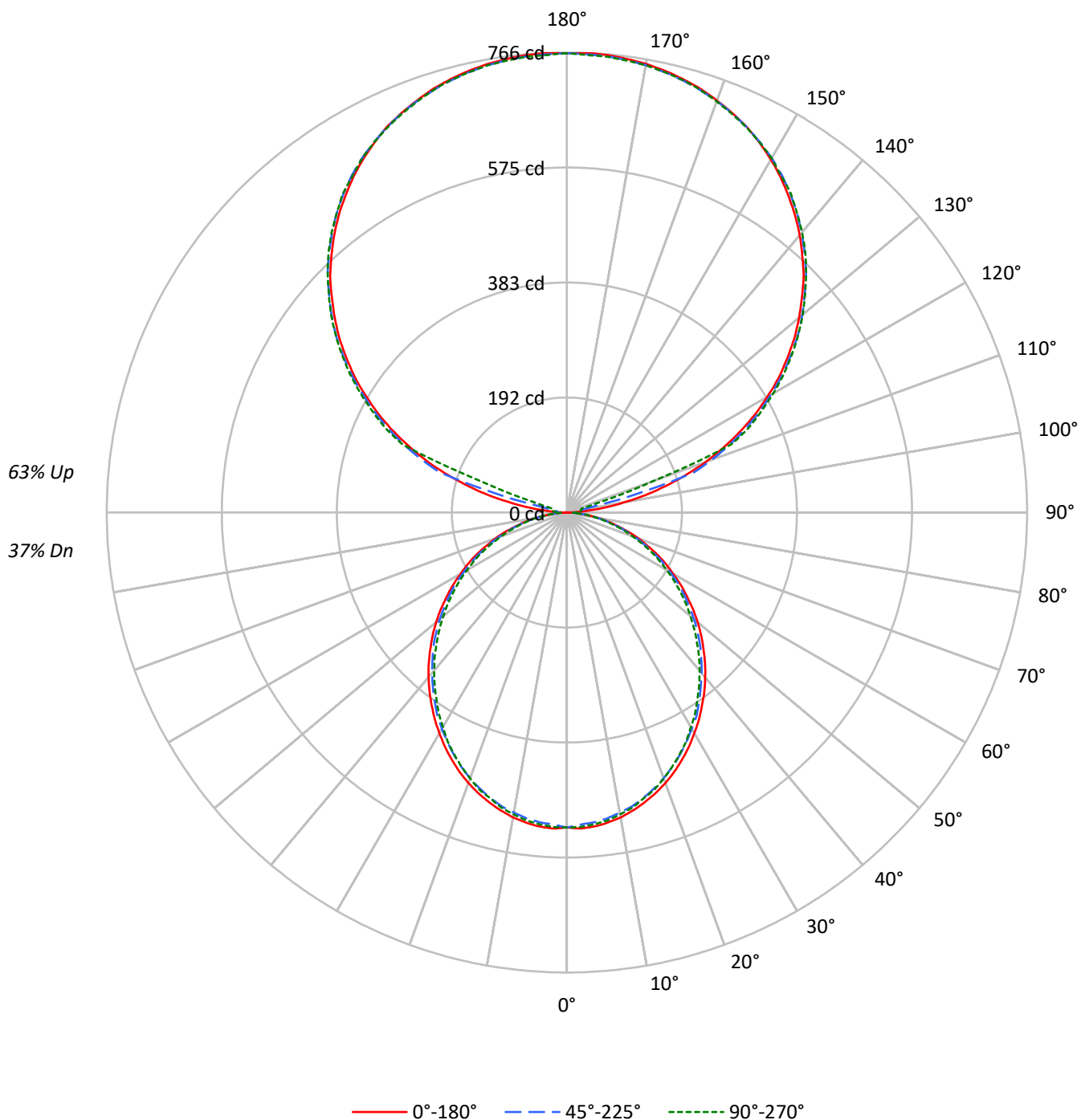
Lumens per Lamp: N/A
Luminaire Lumens: 3698.0 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37
2	86	79	73	68	78	72	67	62	58	55	51	46	43	41	34	33	31
3	79	69	62	56	71	63	57	52	51	47	43	40	37	35	30	28	27
4	72	61	54	48	65	56	49	44	46	41	37	36	32	30	27	25	23
5	66	55	47	41	59	50	43	38	41	36	32	32	29	26	24	22	20
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17
7	56	44	36	31	51	40	33	29	33	28	24	26	23	20	20	17	15
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	12
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11

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	1.3
10°-20°	139.6	3.8
20°-30°	206.2	5.6
30°-40°	240.8	6.5
40°-50°	242.1	6.5
50°-60°	212.7	5.8
60°-70°	158.4	4.3
70°-80°	90.1	2.4
80°-90°	27.1	0.7
90°-100°	27.0	0.7
100°-110°	130.4	3.5
110°-120°	319.5	8.6
120°-130°	405.6	11.0
130°-140°	433.3	11.7
140°-150°	405.2	11.0
150°-160°	326.8	8.8
160°-170°	210.9	5.7
170°-180°	72.7	2.0
0°-30°	395.3	10.7
0°-40°	636.1	17.2
0°-60°	1090.8	29.5
0°-90°	1366.5	37.0
90°-120°	476.9	12.9
90°-150°	1721.0	46.5
90°-180°	2331.0	63.0
0°-180°	3698.0	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	6	14	16	17	4
95°	35	11	18	22	22	41
105°	169	176	124	24	25	180
115°	318	321	326	332	334	314
125°	448	452	454	456	457	400
135°	557	561	563	565	563	429
145°	643	647	648	649	649	403
155°	708	707	708	711	707	326
165°	747	746	745	749	746	211
175°	765	762	762	766	762	73
180°	765	765	765	765	765	

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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°	0.6	6.2	13.6	15.9	17.0
92.5°	13.1	9.7	14.8	18.7	19.3
95°	34.7	11.4	17.6	21.6	21.6
97.5°	63.1	47.2	18.2	22.7	23.3
100°	96.0	107.4	18.7	23.3	23.9
102.5°	133.5	140.9	42.0	23.3	24.4
105°	169.3	175.6	124.4	23.9	25.0
107.5°	207.4	212.5	221.0	133.5	59.1
110°	245.5	250.0	256.2	237.5	156.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	281.8	285.8	292.0	297.2	296.0
115°	317.6	321.0	326.1	331.8	334.1
117.5°	352.8	356.8	359.7	364.2	364.8
120°	385.2	390.3	392.0	396.6	396.6
122.5°	418.2	422.2	424.4	427.3	427.8
125°	447.7	452.3	454.5	455.7	456.8
127.5°	477.3	481.8	484.7	486.4	485.2
130°	504.5	509.1	511.4	513.6	512.5
132.5°	530.7	535.2	536.9	539.2	537.5
135°	557.4	560.8	563.1	564.8	563.1
137.5°	580.1	584.7	585.8	588.6	587.5
140°	602.8	606.2	608.0	610.2	609.1
142.5°	623.9	627.3	629.0	630.7	629.0
145°	643.2	647.2	648.3	649.4	649.4
147.5°	661.9	664.8	665.9	667.0	664.2
150°	679.0	680.7	681.8	683.0	681.2
152.5°	694.3	694.9	695.5	697.7	694.9
155°	708.5	707.4	708.0	710.8	707.4
157.5°	719.9	719.9	719.3	722.7	718.2
160°	730.1	729.5	729.0	732.4	728.4
162.5°	739.8	738.1	737.5	741.5	738.1
165°	747.2	745.5	744.9	749.4	745.5
167.5°	753.4	751.1	751.1	755.7	751.1
170°	758.5	756.2	756.2	760.8	756.2
172.5°	761.9	759.1	759.7	764.2	759.1
175°	764.8	761.9	762.5	766.5	761.9
177.5°	765.9	763.1	763.6	768.2	762.5
180°	764.8	764.8	764.8	764.8	764.8

(END OF REPORT)