

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: P1011820

Luminaire Tested: S123DIP-B560D585UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011820
REPORT IS A COMBINATION OF REPORTS P990126 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D585UB30-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

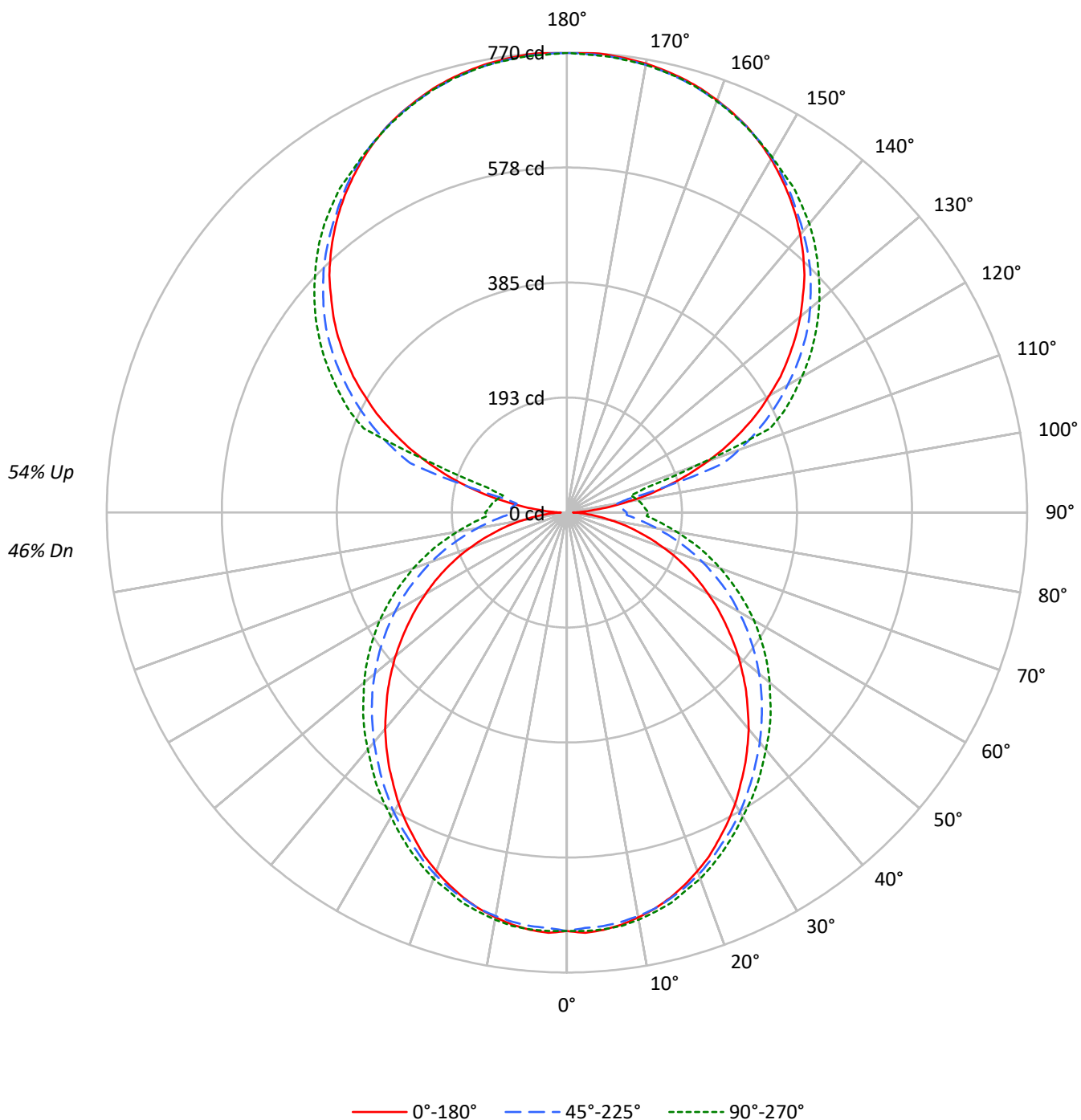
Lumens per Lamp: N/A
Luminaire Lumens: 4701.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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

TEST NUMBER: P1011820

CATALOG NUMBER: S123DIP-B560D585UB30-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1011820

CATALOG NUMBER: S123DIP-B560D585UB30-4F0-XX-W2A-D

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	81	81	81	66	66	66	52	52	52
1	96	91	87	83	88	84	80	77	70	67	64	57	55	53	45	43	42
2	87	79	73	67	79	73	67	62	60	56	53	49	46	44	39	37	35
3	79	69	62	55	72	64	57	51	53	48	44	43	39	36	34	31	29
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	27	25
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22
6	61	48	40	34	55	45	37	32	38	32	28	31	26	23	25	21	19
7	56	44	36	30	51	40	33	28	34	28	24	28	24	20	22	19	17
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	17	15
9	48	36	28	23	44	33	27	22	28	23	19	23	19	16	19	16	13
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	18	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7539	7539	7539
5°	7560	7318	7312
10°	7489	7120	7065
15°	7390	6901	6804
20°	7249	6657	6523
25°	7077	6382	6232
30°	6899	6133	5940
35°	6700	5873	5702
40°	6511	5634	5451
45°	6300	5403	5243
50°	6091	5174	5018
55°	5862	4940	4812
60°	5637	4699	4600
65°	5405	4444	4351
70°	5056	4156	4096
75°	4614	3828	3832
80°	4099	3498	3531
85°	3592	3230	3314

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6300 cd/sqm

TEST NUMBER: P1011820

CATALOG NUMBER: S123DIP-B560D585UB30-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	1.4
10°-20°	189.4	4.0
20°-30°	283.3	6.0
30°-40°	338.2	7.2
40°-50°	353.8	7.5
50°-60°	332.1	7.1
60°-70°	277.4	5.9
70°-80°	198.3	4.2
80°-90°	119.5	2.5
90°-100°	101.3	2.2
100°-110°	185.7	3.9
110°-120°	357.8	7.6
120°-130°	428.8	9.1
130°-140°	445.2	9.5
140°-150°	409.6	8.7
150°-160°	328.8	7.0
160°-170°	212.2	4.5
170°-180°	73.1	1.6
0°-30°	539.1	11.5
0°-40°	877.3	18.7
0°-60°	1563.2	33.3
0°-90°	2158.4	45.9
90°-120°	644.8	13.7
90°-150°	1928.4	41.0
90°-180°	2543.0	54.1
0°-180°	4701.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	701	700	695	701	700	67
15°	668	670	669	677	676	188
25°	603	610	613	623	623	278
35°	519	531	541	552	556	324
45°	424	442	462	476	482	327
55°	324	349	376	397	403	290
65°	224	253	287	310	317	221
75°	121	157	195	220	230	130
85°	37	76	116	142	150	38
90°	10	54	100	128	137	9
95°	43	50	93	121	128	48
105°	176	201	182	103	111	187
115°	323	336	368	393	401	320
125°	453	457	482	499	505	405
135°	562	565	576	591	593	433
145°	648	651	652	659	662	405
155°	713	712	712	715	712	328
165°	752	750	749	754	750	212
175°	769	766	767	771	766	73
180°	769	769	769	769	769	

TEST NUMBER: P1011820

CATALOG NUMBER: S123DIP-B560D585UB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	700.4	700.4	700.4	700.4	700.4
2.5°	704.2	702.0	695.9	702.0	701.2
5°	701.2	699.7	695.1	701.2	700.4
7.5°	695.9	695.9	691.3	698.9	698.1
10°	688.2	689.7	685.9	693.6	692.0
12.5°	679.1	681.4	679.1	685.9	684.4
15°	667.6	669.9	669.1	676.8	676.0
17.5°	653.9	658.5	657.7	664.6	663.0
20°	638.6	643.2	644.7	651.6	652.4
22.5°	622.6	627.2	629.5	638.6	637.9
25°	602.8	610.4	612.7	622.6	622.6
27.5°	583.7	592.1	596.7	605.1	605.8
30°	563.1	573.0	579.1	588.3	588.3
32.5°	540.2	551.6	560.0	570.0	572.2
35°	518.8	531.0	541.0	552.4	555.5
37.5°	495.9	509.7	521.1	534.1	536.4
40°	473.1	486.8	502.1	515.0	518.1
42.5°	447.9	465.4	481.5	495.9	500.5
45°	424.2	442.5	461.6	476.1	482.2
47.5°	399.0	419.6	441.0	457.0	461.6
50°	374.6	396.0	419.6	437.2	442.5
52.5°	348.7	371.6	398.3	416.6	423.5
55°	323.5	348.7	376.2	396.8	402.9
57.5°	299.1	325.0	354.8	375.4	382.3
60°	273.2	300.6	331.9	353.3	361.7
62.5°	248.7	277.0	310.5	331.9	339.5
65°	223.6	253.3	286.9	309.8	317.4
67.5°	198.4	229.7	263.2	288.4	294.5
70°	171.7	204.5	241.1	265.5	273.2
72.5°	147.3	180.1	218.2	243.4	251.0
75°	121.3	157.2	195.3	220.5	229.7
77.5°	99.2	135.1	173.2	199.9	206.8
80°	75.5	112.9	152.6	178.5	186.2
82.5°	54.9	93.1	133.5	159.5	167.1
85°	37.4	75.5	116.0	141.9	149.5
87.5°	22.9	61.0	100.0	125.9	133.5
90°	10.5	53.6	99.9	128.2	136.9
92.5°	22.3	51.7	95.0	124.2	131.6
95°	43.3	49.5	93.2	120.9	128.5
97.5°	71.0	82.5	89.3	116.7	124.9
100°	103.5	139.3	85.3	111.9	120.1
102.5°	140.4	169.3	104.1	106.6	115.4
105°	176.4	201.0	182.4	102.6	110.7
107.5°	213.9	235.2	274.9	207.5	139.5
110°	251.5	269.8	306.6	307.6	232.0

TEST NUMBER: P1011820

CATALOG NUMBER: S123DIP-B560D585UB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.1	302.8	338.1	362.2	368.0
115°	323.3	335.9	368.5	392.6	401.0
117.5°	358.8	368.9	397.7	420.6	427.3
120°	390.6	399.6	426.4	448.6	453.9
122.5°	423.8	429.3	455.2	474.8	480.8
125°	452.7	457.3	481.7	498.8	505.4
127.5°	482.4	486.2	508.2	525.2	529.3
130°	509.9	513.6	531.2	548.0	551.5
132.5°	535.4	539.9	553.2	569.1	572.7
135°	562.2	565.0	575.6	591.1	593.1
137.5°	585.1	589.0	595.4	610.5	613.1
140°	607.3	610.7	614.7	628.4	631.0
142.5°	628.4	631.0	632.8	644.4	646.5
145°	647.8	651.0	652.2	659.4	662.5
147.5°	665.9	668.8	669.9	673.3	673.5
150°	683.1	684.8	685.9	687.1	686.8
152.5°	698.5	699.1	699.6	701.9	699.1
155°	712.8	711.6	712.2	715.1	711.6
157.5°	724.2	724.2	723.6	727.1	722.5
160°	734.5	733.9	733.4	736.8	732.8
162.5°	744.2	742.5	741.9	745.9	742.5
165°	751.6	749.9	749.4	753.9	749.9
167.5°	757.9	755.6	755.6	760.2	755.6
170°	763.1	760.8	760.8	765.4	760.8
172.5°	766.5	763.6	764.2	768.8	763.6
175°	769.4	766.5	767.1	771.1	766.5
177.5°	770.5	767.6	768.2	772.8	767.1
180°	769.4	769.4	769.4	769.4	769.4

(END OF REPORT)