

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: P1011688

Luminaire Tested: S123DIP-B560D1025UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011688
REPORT IS A COMBINATION OF REPORTS P989946 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1025UB30-4F0-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

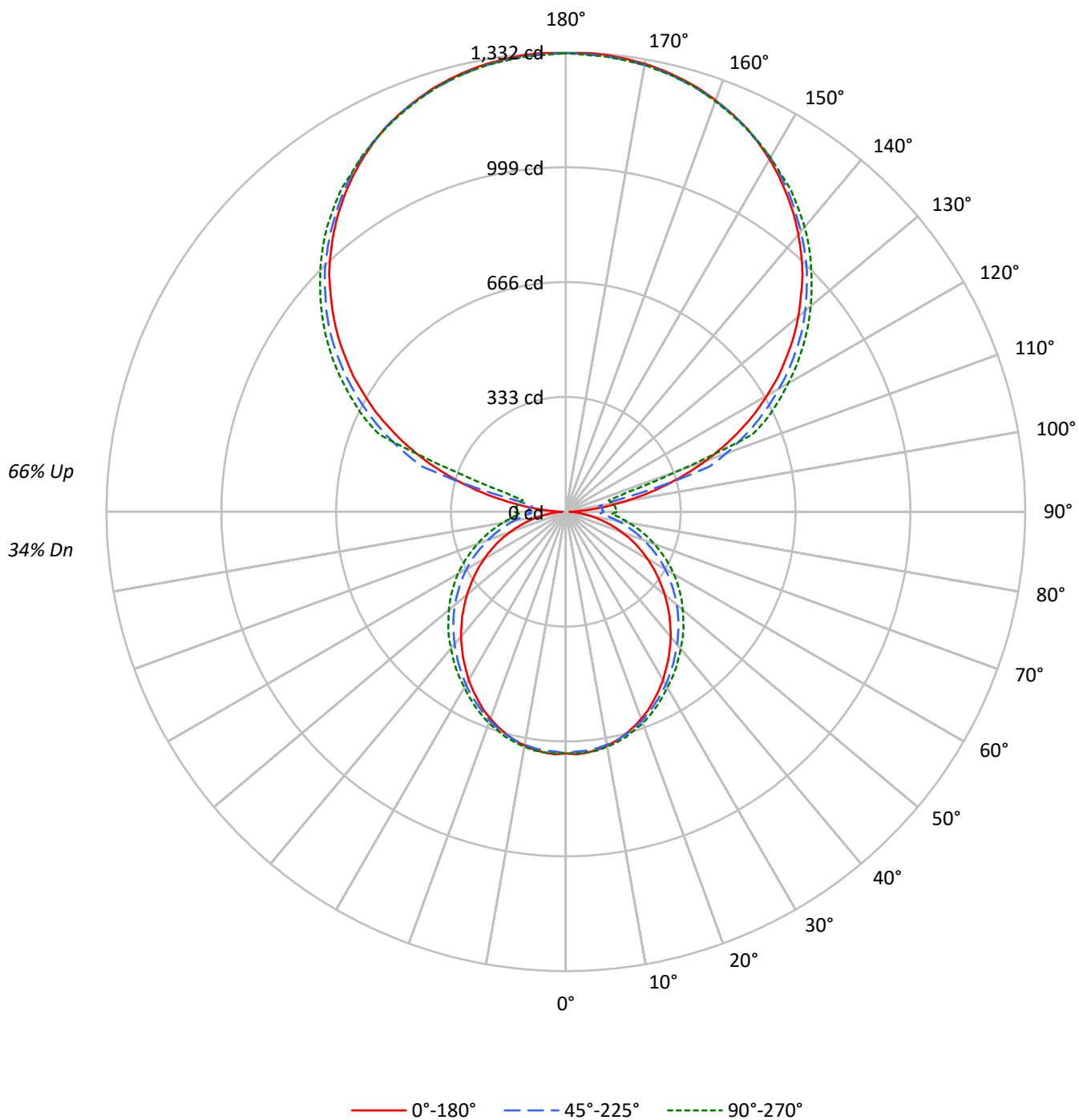
Lumens per Lamp: N/A
Luminaire Lumens: 6411.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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: P1011688

CATALOG NUMBER: S123DIP-B560D1025UB30-4F0-XX-W2A-D

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41
1	93	89	85	81	84	80	77	74	64	62	59	49	47	46	35	34	33
2	85	77	71	66	76	70	64	60	56	52	49	43	40	38	31	29	27
3	77	68	60	54	69	61	55	50	49	44	40	37	34	32	27	25	23
4	70	60	52	46	63	54	47	42	43	38	34	33	30	27	24	22	20
5	64	53	45	39	58	48	41	36	38	33	29	30	26	23	21	19	17
6	59	47	39	33	53	43	36	31	34	29	25	27	23	20	19	17	15
7	55	42	35	29	49	39	32	27	31	26	22	24	20	18	18	15	13
8	51	38	31	26	45	35	28	23	28	23	20	22	18	16	16	14	12
9	47	35	28	23	42	32	25	21	26	21	17	20	17	14	15	12	10
10	44	32	25	20	39	29	23	19	24	19	15	19	15	12	14	11	9

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: P1011688

CATALOG NUMBER: S123DIP-B560D1025UB30-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	1.0
10°-20°	189.4	3.0
20°-30°	283.3	4.4
30°-40°	338.2	5.3
40°-50°	353.8	5.5
50°-60°	332.1	5.2
60°-70°	277.4	4.3
70°-80°	198.3	3.1
80°-90°	120.7	1.9
90°-100°	121.0	1.9
100°-110°	281.2	4.4
110°-120°	592.0	9.2
120°-130°	726.1	11.3
130°-140°	762.9	11.9
140°-150°	706.6	11.0
150°-160°	568.4	8.9
160°-170°	366.8	5.7
170°-180°	126.4	2.0
0°-30°	539.1	8.4
0°-40°	877.3	13.7
0°-60°	1563.2	24.4
0°-90°	2159.6	33.7
90°-120°	994.3	15.5
90°-150°	3189.9	49.8
90°-180°	4251.0	66.3
0°-180°	6411.0	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°	11	58	110	140	149	10
95°	69	58	106	137	144	79
105°	300	330	274	120	129	318
115°	556	571	608	636	646	549
125°	781	789	815	833	840	698
135°	971	976	988	1005	1006	747
145°	1119	1125	1127	1135	1138	701
155°	1232	1230	1231	1236	1230	568
165°	1299	1296	1295	1303	1296	367
175°	1330	1325	1326	1333	1325	127
180°	1330	1330	1330	1330	1330	

TEST NUMBER: P1011688

CATALOG NUMBER: S123DIP-B560D1025UB30-4F0-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°	10.9	58.2	109.9	139.9	149.4
92.5°	31.9	58.8	105.8	137.9	145.8
95°	68.7	57.9	106.1	136.7	144.3
97.5°	117.3	117.1	102.6	133.3	142.0
100°	173.9	218.0	99.0	129.0	137.6
102.5°	238.3	272.5	134.9	123.7	133.3
105°	300.5	329.7	273.6	120.1	129.0
107.5°	365.9	390.9	436.9	305.4	182.9
110°	431.4	453.0	494.4	481.7	346.5

TEST NUMBER: P1011688

CATALOG NUMBER: S123DIP-B560D1025UB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	494.7	512.3	552.2	580.0	585.0
115°	556.1	571.2	607.5	635.8	645.9
117.5°	617.4	630.4	661.3	687.5	694.6
120°	673.0	685.7	713.8	739.3	744.6
122.5°	730.3	738.7	766.3	788.0	794.4
125°	780.9	788.8	814.8	832.8	840.2
127.5°	832.3	839.4	863.4	881.7	885.0
130°	879.7	886.8	906.0	924.5	927.1
132.5°	924.3	932.2	946.7	964.4	966.7
135°	970.8	976.0	988.4	1005.0	1005.9
137.5°	1010.3	1017.5	1024.8	1041.9	1043.7
140°	1049.1	1055.0	1060.3	1075.7	1077.5
142.5°	1085.7	1090.8	1093.8	1106.6	1107.5
145°	1119.3	1125.4	1127.4	1135.4	1138.5
147.5°	1151.1	1156.0	1158.0	1162.3	1160.3
150°	1180.7	1183.7	1185.7	1187.6	1186.2
152.5°	1207.4	1208.4	1209.4	1213.3	1208.4
155°	1232.1	1230.1	1231.1	1236.0	1230.1
157.5°	1251.9	1251.9	1250.9	1256.8	1248.9
160°	1269.6	1268.7	1267.7	1273.6	1266.7
162.5°	1286.4	1283.5	1282.5	1289.4	1283.5
165°	1299.3	1296.3	1295.3	1303.2	1296.3
167.5°	1310.1	1306.2	1306.2	1314.1	1306.2
170°	1319.0	1315.1	1315.1	1323.0	1315.1
172.5°	1325.0	1320.0	1321.0	1328.9	1320.0
175°	1329.9	1325.0	1326.0	1332.9	1325.0
177.5°	1331.9	1326.9	1327.9	1335.8	1326.0
180°	1329.9	1329.9	1329.9	1329.9	1329.9

(END OF REPORT)