

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: P1011716

Luminaire Tested: S123DIP-B560D1025UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011716
REPORT IS A COMBINATION OF REPORTS P989974 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1025UB50-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

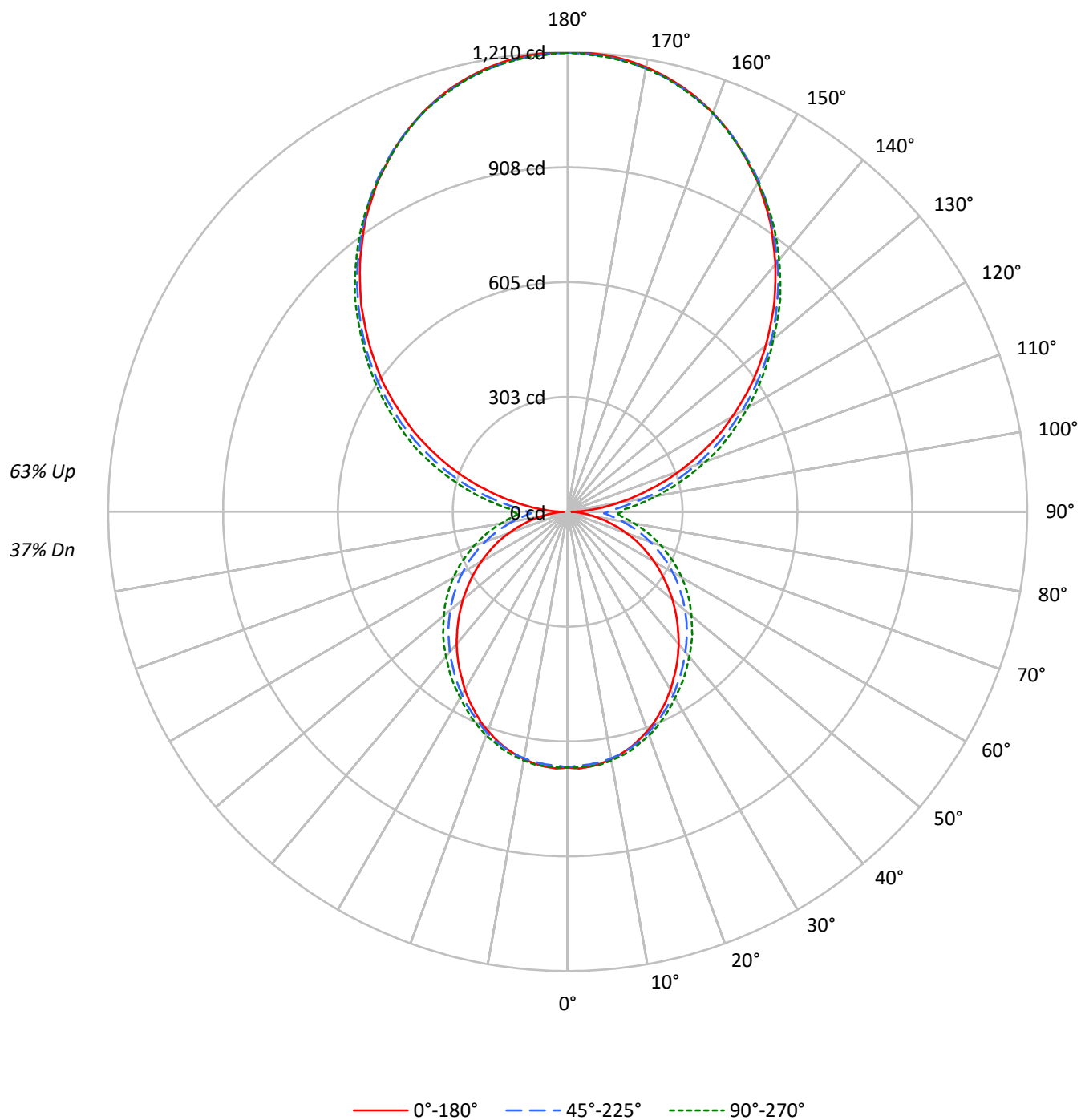
Lumens per Lamp: N/A
Luminaire Lumens: 5617.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1011716

CATALOG NUMBER: S123DIP-B560D1025UB50-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1011716

CATALOG NUMBER: S123DIP-B560D1025UB50-4F0-XX-W2A-D1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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	94	89	85	82	85	81	78	74		65	63	61		51	49	48		38	37	36
2	85	78	71	66	77	70	65	60		57	53	50		44	42	39		33	31	29
3	78	68	61	55	70	62	55	50		50	45	41		39	36	33		29	27	25
4	71	60	52	46	64	54	48	42		44	39	35		35	31	28		26	23	21
5	65	53	45	39	58	48	41	36		39	34	30		31	27	24		23	20	18
6	60	48	39	34	54	43	36	31		35	30	26		28	24	21		21	18	16
7	55	43	35	29	50	39	32	27		32	27	23		25	21	18		19	16	14
8	51	39	31	26	46	35	29	24		29	24	20		23	19	16		17	15	13
9	47	35	28	23	43	32	26	21		26	21	18		21	17	15		16	13	11
10	44	32	25	20	40	30	23	19		24	19	16		19	16	13		15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7248	7248	7248
5°	7268	7035	7030
10°	7200	6845	6793
15°	7104	6634	6541
20°	6969	6400	6270
25°	6803	6136	5991
30°	6632	5896	5710
35°	6442	5646	5482
40°	6259	5416	5239
45°	6056	5195	5041
50°	5856	4974	4824
55°	5635	4748	4626
60°	5419	4518	4422
65°	5195	4272	4183
70°	4859	3996	3937
75°	4435	3681	3684
80°	3941	3363	3395
85°	3448	3105	3187

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6056 cd/sqm

TEST NUMBER: P1011716

CATALOG NUMBER: S123DIP-B560D1025UB50-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.1
10°-20°	182.1	3.2
20°-30°	272.3	4.8
30°-40°	325.1	5.8
40°-50°	340.2	6.1
50°-60°	319.2	5.7
60°-70°	266.6	4.7
70°-80°	190.7	3.4
80°-90°	116.0	2.1
90°-100°	149.1	2.7
100°-110°	288.1	5.1
110°-120°	436.2	7.8
120°-130°	547.8	9.8
130°-140°	602.2	10.7
140°-150°	585.1	10.4
150°-160°	491.0	8.7
160°-170°	326.9	5.8
170°-180°	114.5	2.0
0°-30°	518.3	9.2
0°-40°	843.4	15.0
0°-60°	1502.8	26.8
0°-90°	2076.1	37.0
90°-120°	873.4	15.5
90°-150°	2608.5	46.4
90°-180°	3541.0	63.0
0°-180°	5617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	673	673	673	673	673	
5°	674	673	668	674	673	64
15°	642	644	643	651	650	181
25°	580	587	589	598	598	267
35°	499	510	520	531	534	312
45°	408	425	444	458	464	314
55°	311	335	362	381	387	278
65°	215	244	276	298	305	212
75°	117	151	188	212	221	125
85°	36	73	112	136	144	37
90°	10	56	106	134	144	11
95°	64	99	143	170	177	68
105°	220	239	279	300	308	235
115°	408	419	444	462	467	403
125°	593	596	615	627	628	529
135°	768	773	780	790	792	592
145°	931	932	935	940	939	581
155°	1065	1065	1066	1070	1063	490
165°	1160	1157	1157	1163	1156	327
175°	1207	1203	1203	1209	1202	115
180°	1210	1210	1210	1210	1210	

TEST NUMBER: P1011716

CATALOG NUMBER: S123DIP-B560D1025UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	673.4	673.4	673.4	673.4	673.4
2.5°	677.0	674.8	669.0	674.8	674.1
5°	674.1	672.6	668.2	674.1	673.4
7.5°	669.0	669.0	664.6	671.9	671.2
10°	661.6	663.1	659.4	666.8	665.3
12.5°	652.8	655.0	652.8	659.4	658.0
15°	641.8	644.0	643.3	650.6	649.9
17.5°	628.6	633.0	632.3	638.9	637.4
20°	613.9	618.3	619.8	626.4	627.1
22.5°	598.5	602.9	605.1	613.9	613.2
25°	579.5	586.8	589.0	598.5	598.5
27.5°	561.1	569.2	573.6	581.7	582.4
30°	541.3	550.9	556.7	565.5	565.5
32.5°	519.3	530.3	538.4	547.9	550.1
35°	498.8	510.5	520.1	531.1	534.0
37.5°	476.8	490.0	501.0	513.5	515.7
40°	454.8	468.0	482.6	495.1	498.0
42.5°	430.6	447.4	462.8	476.8	481.2
45°	407.8	425.4	443.8	457.7	463.6
47.5°	383.6	403.4	424.0	439.4	443.8
50°	360.1	380.7	403.4	420.3	425.4
52.5°	335.2	357.2	382.9	400.5	407.1
55°	311.0	335.2	361.6	381.4	387.3
57.5°	287.5	312.5	341.1	360.9	367.5
60°	262.6	289.0	319.1	339.6	347.7
62.5°	239.1	266.3	298.5	319.1	326.4
65°	214.9	243.5	275.8	297.8	305.1
67.5°	190.7	220.8	253.1	277.3	283.1
70°	165.0	196.6	231.8	255.3	262.6
72.5°	141.6	173.1	209.8	234.0	241.3
75°	116.6	151.1	187.8	212.0	220.8
77.5°	95.4	129.8	166.5	192.2	198.8
80°	72.6	108.6	146.7	171.6	179.0
82.5°	52.8	89.5	128.4	153.3	160.6
85°	35.9	72.6	111.5	136.4	143.8
87.5°	22.0	58.7	96.1	121.0	128.4
90°	10.5	56.0	105.7	134.4	143.7
92.5°	37.3	74.5	116.9	144.0	148.7
95°	64.2	99.4	142.9	169.5	176.8
97.5°	99.5	130.6	170.8	197.6	204.0
100°	135.8	165.0	203.5	227.6	236.8
102.5°	177.9	201.2	240.9	264.3	270.7
105°	219.7	239.2	279.2	299.8	308.3
107.5°	268.3	284.6	318.5	341.2	346.8
110°	313.2	328.3	359.5	382.4	386.4

TEST NUMBER: P1011716

CATALOG NUMBER: S123DIP-B560D1025UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	360.7	372.0	399.8	422.9	429.5
115°	407.5	419.2	443.7	462.2	467.1
117.5°	456.0	462.7	485.8	503.4	506.4
120°	499.8	509.2	528.7	544.6	547.8
122.5°	546.4	551.7	572.5	585.8	588.1
125°	593.2	596.0	615.4	627.0	628.3
127.5°	636.9	641.9	658.3	667.3	668.6
130°	680.6	687.5	699.3	709.5	707.2
132.5°	723.6	731.2	740.3	748.8	749.1
135°	768.3	773.2	780.3	789.7	791.5
137.5°	809.1	813.1	821.1	828.1	828.9
140°	851.1	855.8	859.0	869.0	866.1
142.5°	890.0	894.1	896.0	904.5	903.5
145°	930.9	932.1	935.0	939.9	939.0
147.5°	965.4	969.2	972.0	974.2	971.4
150°	1002.4	1004.3	1006.2	1006.2	1002.0
152.5°	1032.8	1035.7	1036.6	1038.5	1033.8
155°	1065.1	1065.1	1066.1	1069.9	1063.2
157.5°	1092.7	1091.7	1092.7	1096.5	1090.8
160°	1118.3	1116.4	1116.4	1121.2	1117.4
162.5°	1141.1	1138.3	1139.2	1144.0	1137.3
165°	1160.1	1157.3	1157.3	1163.0	1156.3
167.5°	1176.3	1172.5	1173.4	1179.1	1173.4
170°	1189.6	1185.8	1185.8	1192.4	1185.8
172.5°	1200.0	1196.2	1196.2	1201.9	1195.3
175°	1206.7	1202.9	1202.9	1208.6	1201.9
177.5°	1210.5	1206.7	1206.7	1212.4	1205.7
180°	1209.5	1209.5	1209.5	1209.5	1209.5

(END OF REPORT)