

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: P1011761

Luminaire Tested: S123DIP-B560D1195UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011761
REPORT IS A COMBINATION OF REPORTS P990034 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1195UB50-4F0-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

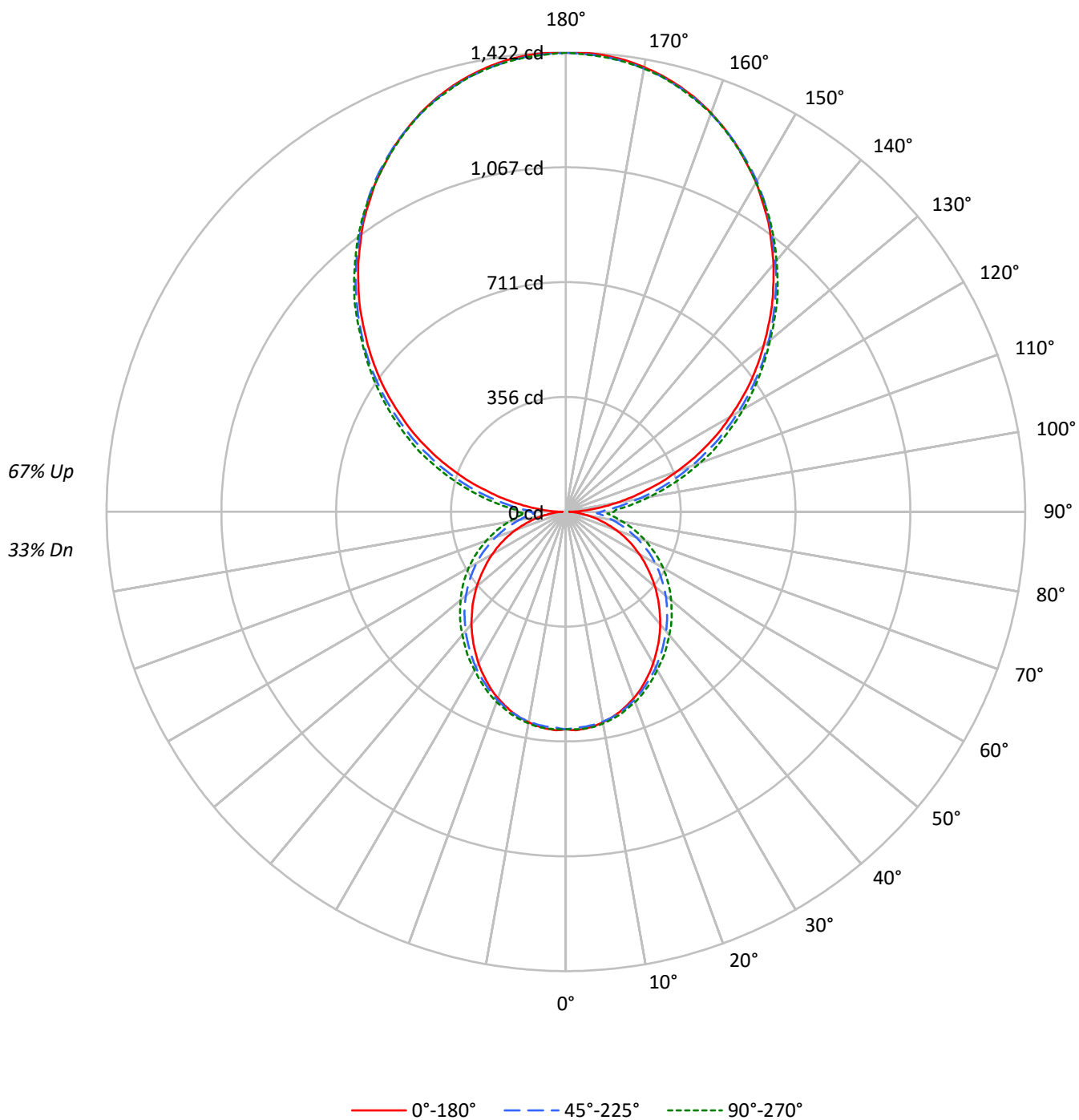
Lumens per Lamp: N/A
Luminaire Lumens: 6204.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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: P1011761

CATALOG NUMBER: S123DIP-B560D1195UB50-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1011761

CATALOG NUMBER: S123DIP-B560D1195UB50-4F0-XX-W2A-D1

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
RCR																	
0	103	103	103	103	93	93	93	93	74	74	74		57	57	57		41
1	93	89	85	81	84	80	77	74	64	61	59		49	47	46		35
2	85	77	71	66	76	70	64	60	55	52	48		42	40	38		30
3	77	68	60	54	69	61	55	50	49	44	40		37	34	32		27
4	70	60	52	46	63	54	47	42	43	38	34		33	30	27		24
5	64	53	45	39	58	48	41	36	38	33	29		30	26	23		21
6	59	47	39	33	53	43	36	31	34	29	25		27	23	20		19
7	55	42	35	29	49	39	32	27	31	26	22		24	20	18		18
8	51	38	31	25	45	35	28	23	28	23	19		22	18	16		16
9	47	35	28	23	42	32	25	21	26	21	17		20	16	14		15
10	44	32	25	20	39	29	23	19	24	19	15		19	15	12		14

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: P1011761

CATALOG NUMBER: S123DIP-B560D1195UB50-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.0
10°-20°	182.1	2.9
20°-30°	272.3	4.4
30°-40°	325.1	5.2
40°-50°	340.2	5.5
50°-60°	319.2	5.1
60°-70°	266.6	4.3
70°-80°	190.7	3.1
80°-90°	116.5	1.9
90°-100°	162.8	2.6
100°-110°	329.3	5.3
110°-120°	506.4	8.2
120°-130°	640.1	10.3
130°-140°	706.1	11.4
140°-150°	687.2	11.1
150°-160°	577.0	9.3
160°-170°	384.1	6.2
170°-180°	134.5	2.2
0°-30°	518.3	8.4
0°-40°	843.4	13.6
0°-60°	1502.8	24.2
0°-90°	2076.5	33.5
90°-120°	998.5	16.1
90°-150°	3031.9	48.9
90°-180°	4127.0	66.5
0°-180°	6204.0	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°	11	58	110	139	149	12
95°	74	110	155	182	190	79
105°	257	277	318	339	348	275
115°	478	490	514	533	538	473
125°	697	700	719	730	731	622
135°	902	908	915	924	926	695
145°	1094	1095	1099	1103	1102	683
155°	1252	1252	1253	1257	1249	576
165°	1363	1360	1360	1366	1359	384
175°	1418	1413	1413	1420	1412	135
180°	1421	1421	1421	1421	1421	

TEST NUMBER: P1011761

CATALOG NUMBER: S123DIP-B560D1195UB50-4F0-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°	10.6	57.8	109.7	139.1	148.7
92.5°	42.3	80.5	123.9	151.4	155.8
95°	74.0	110.4	155.2	182.5	189.8
97.5°	115.6	147.6	188.8	216.4	222.6
100°	158.4	188.6	227.9	252.6	262.1
102.5°	208.0	231.8	272.6	296.6	302.8
105°	257.1	276.9	318.5	339.1	347.9
107.5°	314.4	330.9	365.4	388.6	394.1
110°	367.2	382.7	414.2	437.8	441.4

TEST NUMBER: P1011761

CATALOG NUMBER: S123DIP-B560D1195UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	423.1	434.5	462.3	486.3	492.9
115°	478.2	490.3	514.5	533.2	537.9
117.5°	535.1	542.0	564.8	582.4	584.9
120°	586.8	597.2	615.8	631.6	634.5
122.5°	641.5	647.5	667.9	680.8	682.5
125°	696.6	700.0	719.0	730.0	730.6
127.5°	748.0	754.0	770.1	778.1	778.7
130°	799.3	807.6	818.8	828.4	824.9
132.5°	850.0	858.9	867.7	875.3	874.8
135°	902.5	908.4	915.4	924.1	925.6
137.5°	950.5	955.3	963.8	969.9	970.3
140°	999.9	1005.5	1008.8	1018.7	1014.6
142.5°	1045.7	1050.6	1052.8	1061.2	1059.3
145°	1093.7	1095.2	1098.6	1103.4	1101.8
147.5°	1134.3	1138.8	1142.1	1144.3	1140.5
150°	1177.9	1180.1	1182.3	1182.3	1177.1
152.5°	1213.6	1216.9	1218.0	1220.3	1214.7
155°	1251.5	1251.5	1252.7	1257.1	1249.3
157.5°	1283.9	1282.8	1283.9	1288.4	1281.7
160°	1314.1	1311.8	1311.8	1317.4	1312.9
162.5°	1340.9	1337.5	1338.6	1344.2	1336.4
165°	1363.2	1359.8	1359.8	1366.5	1358.7
167.5°	1382.2	1377.7	1378.8	1385.5	1378.8
170°	1397.8	1393.3	1393.3	1401.1	1393.3
172.5°	1410.1	1405.6	1405.6	1412.3	1404.5
175°	1417.9	1413.4	1413.4	1420.1	1412.3
177.5°	1422.4	1417.9	1417.9	1424.6	1416.8
180°	1421.2	1421.2	1421.2	1421.2	1421.2

(END OF REPORT)