

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: P1030886

Luminaire Tested: S123DIW-B560D1320UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030886
REPORT IS A COMBINATION OF REPORTS P991594 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B560D1320UB2750-4F0-XX-W2A-D_3000K
Description: Define 3 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

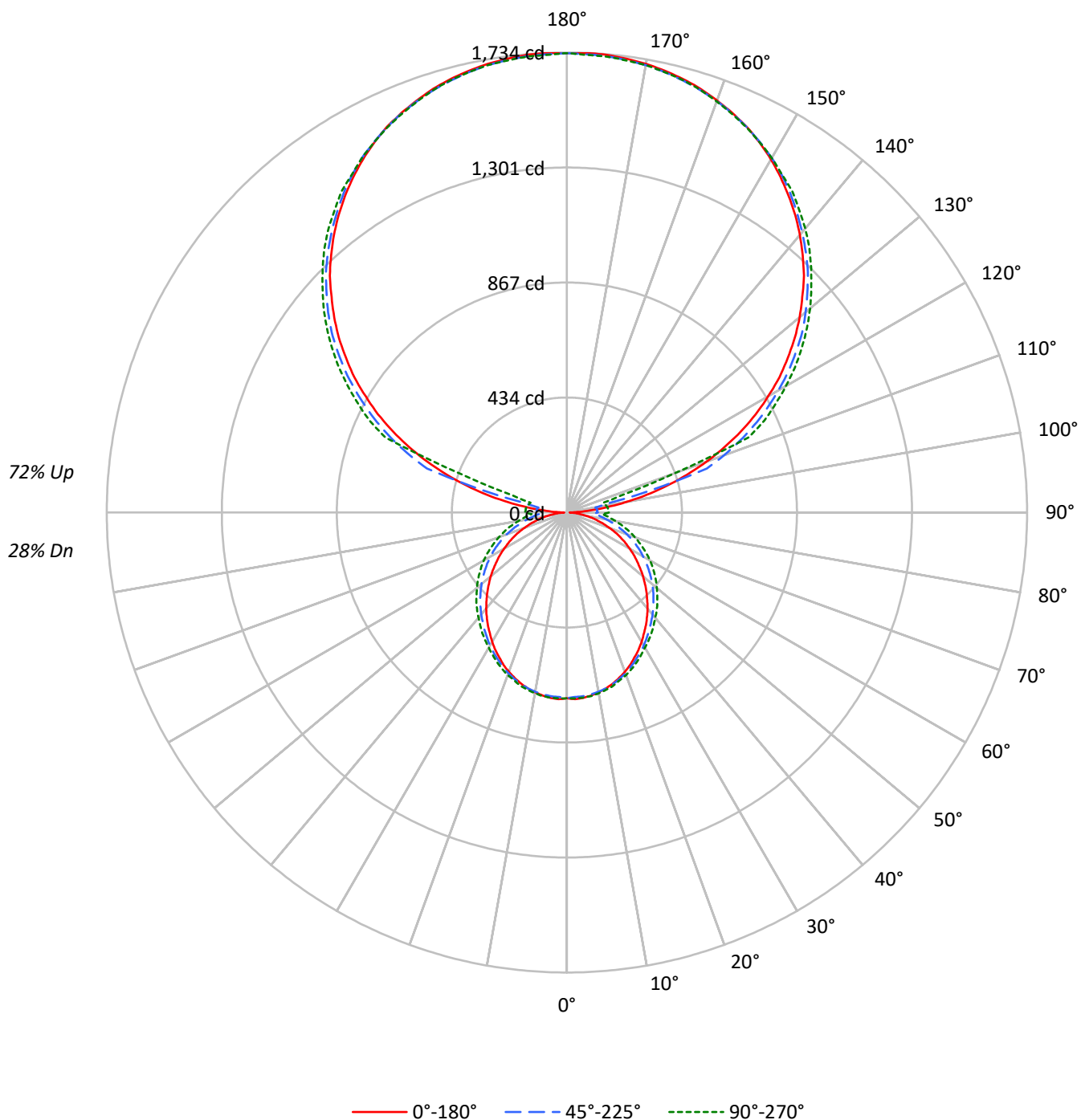
Lumens per Lamp: N/A
Luminaire Lumens: 7636.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 66.1
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: P1030886

CATALOG NUMBER: S123DIW-B560D1320UB2750-4F0-XX-W2A-D_3000K

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	50	30	10
RCR																				
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36			28
1	92	88	84	80	82	79	75	72	61	59	57	46	44	43	31	30	29			23
2	84	76	70	65	75	68	63	59	53	50	47	40	37	35	27	25	24			18
3	76	67	60	54	68	60	54	49	47	43	39	35	32	29	24	22	20			15
4	70	59	51	45	62	53	46	41	41	37	33	31	28	25	21	19	17			13
5	64	52	44	38	57	47	40	35	37	32	28	28	24	21	19	17	15			11
6	59	47	39	33	52	42	35	30	33	28	24	25	21	19	17	15	13			10
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	12			9
8	50	38	30	25	44	34	28	23	27	22	19	20	17	14	14	12	10			8
9	46	34	27	22	41	31	25	20	25	20	17	19	15	13	13	11	9			7
10	43	31	24	20	39	28	22	18	23	18	15	17	14	12	12	10	8			6

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: P1030886

CATALOG NUMBER: S123DIW-B560D1320UB2750-4F0-XX-W2A-D_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	0.9
10°-20°	189.4	2.5
20°-30°	283.3	3.7
30°-40°	338.2	4.4
40°-50°	353.8	4.6
50°-60°	332.1	4.3
60°-70°	277.4	3.6
70°-80°	198.3	2.6
80°-90°	121.5	1.6
90°-100°	135.2	1.8
100°-110°	349.7	4.6
110°-120°	759.8	10.0
120°-130°	939.1	12.3
130°-140°	990.4	13.0
140°-150°	919.3	12.0
150°-160°	740.0	9.7
160°-170°	477.5	6.3
170°-180°	164.6	2.2
0°-30°	539.1	7.1
0°-40°	877.3	11.5
0°-60°	1563.2	20.5
0°-90°	2160.4	28.3
90°-120°	1244.8	16.3
90°-150°	4093.6	53.6
90°-180°	5476.0	71.7
0°-180°	7636.0	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	62	117	148	158	12
95°	87	64	115	148	156	100
105°	389	422	339	133	142	413
115°	723	740	779	810	821	714
125°	1016	1026	1054	1072	1080	908
135°	1263	1270	1284	1302	1302	973
145°	1457	1465	1468	1476	1480	912
155°	1604	1602	1603	1609	1602	739
165°	1692	1688	1686	1697	1688	478
175°	1732	1725	1726	1735	1725	165
180°	1732	1732	1732	1732	1732	

TEST NUMBER: P1030886

CATALOG NUMBER: S123DIW-B560D1320UB2750-4F0-XX-W2A-D_3000K

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°	11.2	61.5	117.1	148.2	158.4
92.5°	38.8	63.9	113.5	147.8	155.9
95°	86.9	63.8	115.4	148.1	155.7
97.5°	150.4	141.9	112.2	145.3	154.2
100°	224.3	274.4	108.9	141.2	150.1
102.5°	308.4	346.5	157.0	135.9	146.1
105°	389.4	421.9	338.9	132.6	142.1
107.5°	474.8	502.5	553.0	375.5	213.9
110°	560.3	584.3	629.0	606.4	428.6



TEST NUMBER: P1030886

CATALOG NUMBER: S123DIW-B560D1320UB2750-4F0-XX-W2A-D_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	642.6	662.4	705.5	736.1	740.4
115°	722.9	739.8	778.8	810.0	821.3
117.5°	802.6	817.7	850.2	878.8	886.2
120°	875.3	890.6	919.6	947.5	952.8
122.5°	949.9	960.4	989.1	1012.4	1019.0
125°	1016.0	1026.3	1053.5	1072.1	1080.1
127.5°	1082.9	1092.4	1117.9	1137.0	1139.8
130°	1144.6	1154.1	1174.5	1194.2	1196.2
132.5°	1203.0	1213.3	1228.6	1247.5	1248.9
135°	1263.4	1270.5	1284.0	1301.6	1301.5
137.5°	1314.9	1324.5	1332.4	1351.0	1352.2
140°	1365.7	1373.4	1379.5	1396.1	1397.3
142.5°	1413.2	1420.2	1424.0	1437.8	1437.7
145°	1457.0	1465.2	1467.8	1476.4	1479.5
147.5°	1498.6	1505.1	1507.6	1512.5	1509.1
150°	1537.2	1541.1	1543.7	1546.2	1543.9
152.5°	1572.0	1573.2	1574.5	1579.7	1573.2
155°	1604.1	1601.5	1602.8	1609.3	1601.5
157.5°	1629.8	1629.8	1628.6	1636.3	1626.0
160°	1653.0	1651.7	1650.4	1658.1	1649.1
162.5°	1674.9	1671.0	1669.7	1678.7	1671.0
165°	1691.6	1687.7	1686.4	1696.7	1687.7
167.5°	1705.7	1700.6	1700.6	1710.9	1700.6
170°	1717.3	1712.2	1712.2	1722.5	1712.2
172.5°	1725.0	1718.6	1719.9	1730.2	1718.6
175°	1731.5	1725.0	1726.3	1735.3	1725.0
177.5°	1734.0	1727.6	1728.9	1739.2	1726.3
180°	1731.5	1731.5	1731.5	1731.5	1731.5

(END OF REPORT)