

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: P1030870

Luminaire Tested: S123DIW-B560D1030UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030870
REPORT IS A COMBINATION OF REPORTS P991527 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B560D1030UB2750-4F0-XX-W2A-D_2700K
Description: Define 3 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

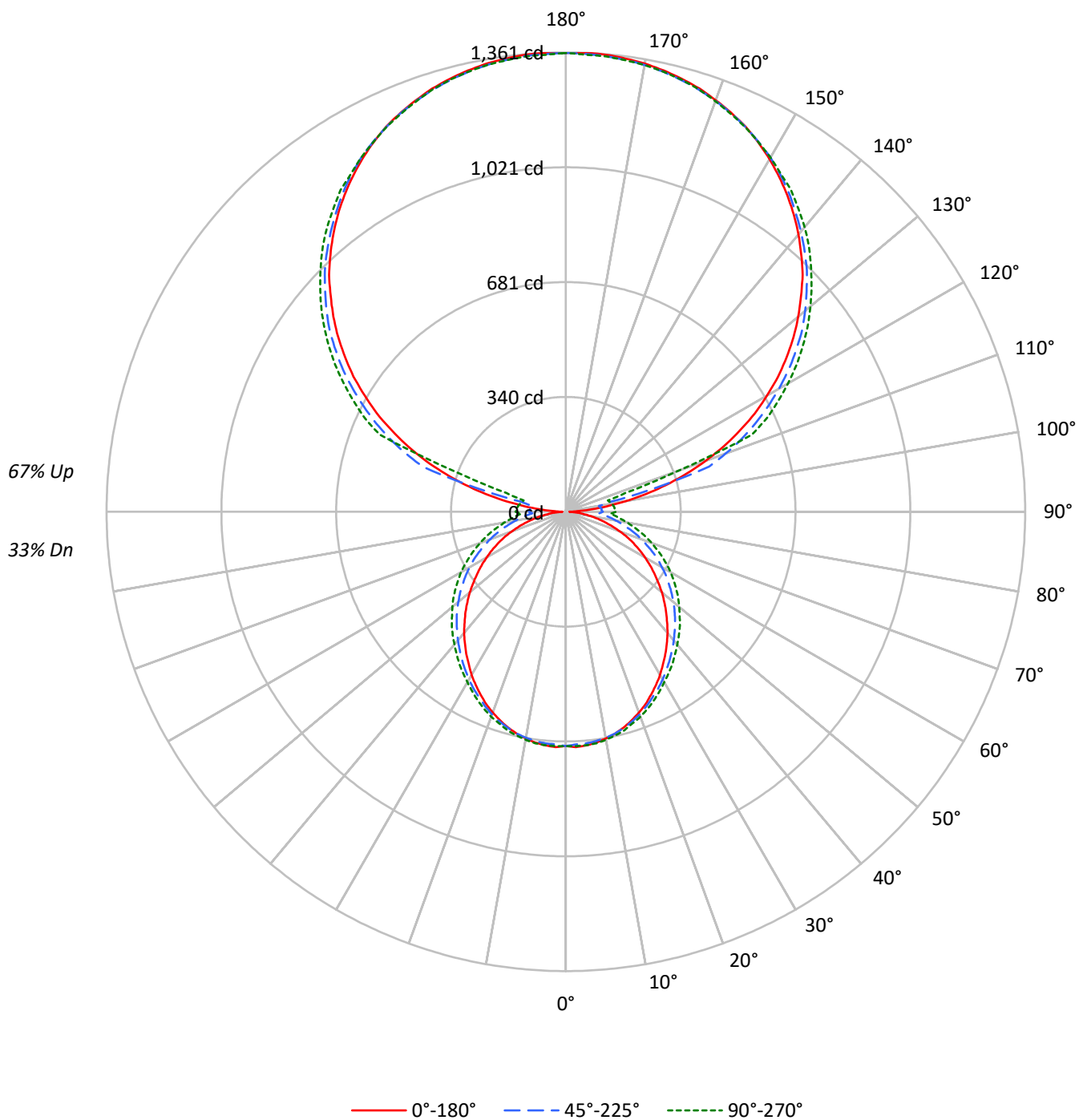
Lumens per Lamp: N/A
Luminaire Lumens: 6480.0 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.5
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: P1030870

CATALOG NUMBER: S123DIW-B560D1030UB2750-4F0-XX-W2A-D_2700K

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			33
1	93	89	85	81	84	80	77	73	64	61	59	49	47	46	35	34	33			26
2	85	77	71	66	76	70	64	60	55	52	48	42	40	37	30	28	27			22
3	77	67	60	54	69	61	55	49	49	44	40	37	34	31	26	24	23			18
4	70	59	52	46	63	54	47	42	43	38	34	33	29	27	23	21	19			15
5	64	53	45	39	58	48	41	35	38	33	29	29	26	23	21	19	17			13
6	59	47	39	33	53	43	36	31	34	29	25	26	23	20	19	17	15			11
7	55	42	35	29	49	38	32	27	31	26	22	24	20	17	17	15	13			10
8	51	38	31	25	45	35	28	23	28	23	19	22	18	15	16	13	12			9
9	47	35	28	23	42	32	25	21	26	21	17	20	16	14	15	12	10			8
10	44	32	25	20	39	29	23	18	24	19	15	18	15	12	14	11	9			7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7472	7472	7472
5°	7492	7253	7247
10°	7423	7056	7003
15°	7325	6840	6743
20°	7184	6598	6464
25°	7013	6325	6177
30°	6838	6078	5887
35°	6641	5820	5651
40°	6452	5584	5402
45°	6243	5355	5196
50°	6038	5128	4974
55°	5809	4895	4769
60°	5586	4657	4558
65°	5357	4403	4313
70°	5009	4120	4059
75°	4572	3795	3797
80°	4066	3466	3499
85°	3564	3200	3285

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6243 cd/sqm

TEST NUMBER: P1030870

CATALOG NUMBER: S123DIW-B560D1030UB2750-4F0-XX-W2A-D_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	1.0
10°-20°	187.7	2.9
20°-30°	280.7	4.3
30°-40°	335.2	5.2
40°-50°	350.7	5.4
50°-60°	329.1	5.1
60°-70°	274.9	4.2
70°-80°	196.5	3.0
80°-90°	119.7	1.8
90°-100°	121.4	1.9
100°-110°	285.8	4.4
110°-120°	604.0	9.3
120°-130°	741.6	11.4
130°-140°	779.5	12.0
140°-150°	722.2	11.1
150°-160°	581.0	9.0
160°-170°	374.9	5.8
170°-180°	129.2	2.0
0°-30°	534.3	8.2
0°-40°	869.5	13.4
0°-60°	1549.3	23.9
0°-90°	2140.4	33.0
90°-120°	1011.3	15.6
90°-150°	3254.5	50.2
90°-180°	4340.0	67.0
0°-180°	6480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	694	694	694	694	694	
5°	695	693	689	695	694	66
15°	662	664	663	671	670	186
25°	597	605	607	617	617	275
35°	514	526	536	548	550	322
45°	420	439	458	472	478	324
55°	321	346	373	393	399	287
65°	222	251	284	307	315	219
75°	120	156	194	218	228	128
85°	37	75	115	141	148	38
90°	11	58	110	140	149	10
95°	70	58	106	137	144	80
105°	307	336	278	120	129	325
115°	568	584	620	648	658	562
125°	798	806	832	850	857	713
135°	992	998	1010	1027	1027	764
145°	1144	1150	1152	1160	1164	716
155°	1259	1257	1258	1264	1257	580
165°	1328	1325	1324	1332	1325	375
175°	1359	1354	1355	1362	1354	129
180°	1359	1359	1359	1359	1359	

TEST NUMBER: P1030870

CATALOG NUMBER: S123DIW-B560D1030UB2750-4F0-XX-W2A-D_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	694.2	694.2	694.2	694.2	694.2
2.5°	698.0	695.7	689.6	695.7	694.9
5°	694.9	693.4	688.9	694.9	694.2
7.5°	689.6	689.6	685.1	692.7	691.9
10°	682.1	683.6	679.8	687.4	685.9
12.5°	673.0	675.3	673.0	679.8	678.3
15°	661.7	663.9	663.2	670.7	670.0
17.5°	648.1	652.6	651.8	658.6	657.1
20°	632.9	637.5	639.0	645.8	646.5
22.5°	617.1	621.6	623.9	632.9	632.2
25°	597.4	605.0	607.2	617.1	617.1
27.5°	578.5	586.8	591.3	599.7	600.4
30°	558.1	567.9	573.9	583.0	583.0
32.5°	535.4	546.7	555.0	564.9	567.1
35°	514.2	526.3	536.1	547.5	550.5
37.5°	491.5	505.1	516.5	529.3	531.6
40°	468.8	482.4	497.6	510.4	513.5
42.5°	443.9	461.3	477.2	491.5	496.1
45°	420.4	438.6	457.5	471.9	477.9
47.5°	395.5	415.9	437.1	453.0	457.5
50°	371.3	392.5	415.9	433.3	438.6
52.5°	345.6	368.3	394.7	412.9	419.7
55°	320.6	345.6	372.8	393.2	399.3
57.5°	296.4	322.1	351.6	372.0	378.9
60°	270.7	297.9	328.9	350.1	358.4
62.5°	246.5	274.5	307.8	328.9	336.5
65°	221.6	251.1	284.3	307.0	314.6
67.5°	196.6	227.6	260.9	285.8	291.9
70°	170.1	202.7	239.0	263.2	270.7
72.5°	145.9	178.5	216.3	241.2	248.8
75°	120.2	155.8	193.6	218.5	227.6
77.5°	98.3	133.8	171.7	198.1	204.9
80°	74.9	111.9	151.2	176.9	184.5
82.5°	54.4	92.3	132.3	158.0	165.6
85°	37.1	74.9	114.9	140.7	148.2
87.5°	22.7	60.5	99.1	124.8	132.3
90°	10.8	58.0	109.6	139.5	149.0
92.5°	32.3	58.8	105.7	137.7	145.5
95°	69.9	58.0	106.2	136.7	144.3
97.5°	119.7	118.6	102.6	133.4	142.0
100°	177.5	221.9	99.1	129.1	137.7
102.5°	243.3	277.7	136.0	123.8	133.4
105°	307.0	336.3	277.9	120.3	129.1
107.5°	373.9	398.9	445.1	309.9	184.4
110°	440.8	462.5	503.9	490.3	351.8

TEST NUMBER: P1030870

CATALOG NUMBER: S123DIW-B560D1030UB2750-4F0-XX-W2A-D_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	505.4	523.1	563.0	591.0	595.8
115°	568.4	583.5	619.8	648.0	658.2
117.5°	631.0	644.1	674.8	701.1	708.1
120°	687.8	700.6	728.7	754.2	759.4
122.5°	746.3	754.9	782.4	804.1	810.4
125°	798.2	806.2	832.2	850.1	857.4
127.5°	850.7	858.0	881.9	900.0	903.3
130°	899.1	906.4	925.6	944.0	946.5
132.5°	944.8	952.9	967.3	985.0	987.2
135°	992.3	997.6	1010.0	1026.6	1027.4
137.5°	1032.7	1040.1	1047.3	1064.4	1066.2
140°	1072.4	1078.4	1083.7	1099.1	1100.8
142.5°	1109.7	1115.0	1118.0	1130.9	1131.6
145°	1144.1	1150.4	1152.4	1160.4	1163.5
147.5°	1176.6	1181.7	1183.7	1188.0	1185.9
150°	1206.9	1209.9	1212.0	1214.0	1212.4
152.5°	1234.2	1235.2	1236.2	1240.2	1235.2
155°	1259.4	1257.4	1258.4	1263.5	1257.4
157.5°	1279.6	1279.6	1278.6	1284.7	1276.6
160°	1297.8	1296.8	1295.8	1301.8	1294.8
162.5°	1315.0	1311.9	1310.9	1318.0	1311.9
165°	1328.1	1325.1	1324.1	1332.1	1325.1
167.5°	1339.2	1335.2	1335.2	1343.3	1335.2
170°	1348.3	1344.3	1344.3	1352.3	1344.3
172.5°	1354.4	1349.3	1350.3	1358.4	1349.3
175°	1359.4	1354.4	1355.4	1362.4	1354.4
177.5°	1361.4	1356.4	1357.4	1365.5	1355.4
180°	1359.4	1359.4	1359.4	1359.4	1359.4

(END OF REPORT)