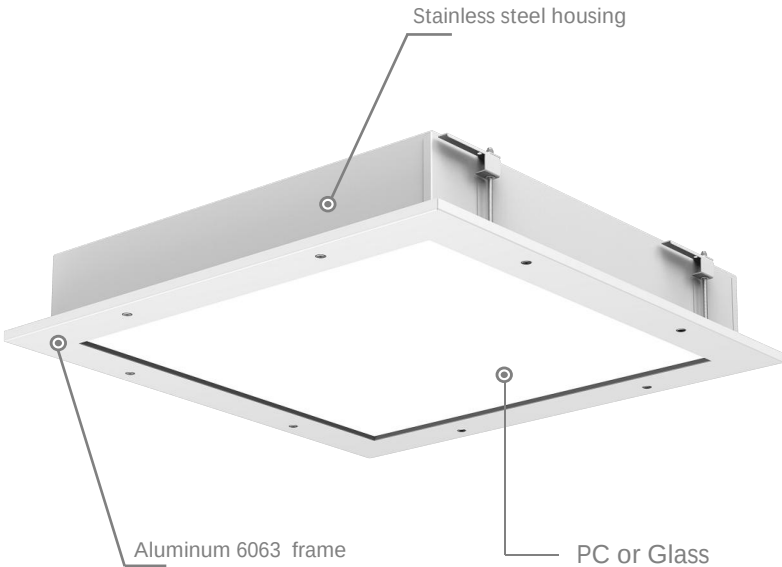


IP65 Cleanroom lighting

1X4,2X2,2X4



1X4 / 2X2 / 2X4



SPECIFICATION

Model	Length	Watt Select	Output Lumen	Nominal Efficacy	CCT Select (choose one combination)	Input Voltage	Dimming	CRI	UGR
WL-2CR14B224/30/36W30K-35K-40K	1'X4'	24W/30W/36W	3240-5220 lm	135-145lm/W	3000K-3500K-4000K or 3500K-4000K-5000K or 3000K-4000K-5000K	AC120-347V	0-10V (1%-100%) / DALI	>80	<22
WL-2CR14B230/45/60W30K-35K-40K	1'X4'	30W/45W/60W	4050-8700 lm						
WL-2CR22B224/30/36W30K-35K-40K	2'X2'	24W/30W/36W	3240-5220 lm						
WL-2CR22B230/45/60W30K-35K-40K	2'X2'	30W/45W/60W	4050-8700 lm						
WL-2CR24B230/45/60W30K-35K-40K	2'X4'	30W/45W/60W	4050-8700 lm						
WL-2CR24B245/67/90W30K-35K-40K	2'X4'	45W/67W/90W	6075-13050 lm						

APPLICATIONS

Designed for high-hygiene environments such as food & beverage processing, electronics and semiconductor manufacturing, and pharmaceutical or biotech facilities.

HOUSING

- 6063 aluminum frame integrated with seamless stainless steel housing structure
- Standard 24-gauge (optional 20-gauge) steel construction
- IP65 rated for dust and water protection
- Impact-resistant PC or glass optical lens options
- IK10 impact resistance for demanding environments (PC lens version; IK08 with optional glass lens - see Optical Options)
- Anti-bacterial surface treatment for hygiene-critical environments
- Corrosion resistance verified via salt spray testing (no corrosion observed)

DOORFRAME

- One-piece stainless steel doorframe construction for structural integrity
- Integrated silicone gasket for dustproof and moisture-resistant sealing
- Tool-free hinged access design for in-place maintenance without fixture removal

MOUNTING

- Non-IC recessed ceiling mounting into grid and flange application types
- Included adjustable swing-out mounting brackets support both grid and flange installations
- Universal installation into 1"(2.54cm) and 1.5"(3.81cm) T-bar grid or flange (drywall) ceiling applications
- Grid mount: lay-in design seats flush within T-bar ceiling systems for standard cleanroom zones
- Flange mount: overlapping door flange creates airtight ceiling seal, ideal for ISO Class 3 pharmaceutical and semiconductor environments

SYSTEM SPECIFICATIONS

- Sizes available: 1x4 / 2x2 / 2x4
- Selectable wattage: 24W - 90W (by size)
- Nominal efficacy options: 135-145lm/W
- CCT selectable: 3000K-5000K (multiple CCT combinations available)
- CRI >80, UGR <22
- Operating temperature: -13°F to 122°F (-25°C to 50°C)

MODES & CONTROLS

- 0-10V dimming standard (1 – 100%)
- Optional DALI dimming, Bluetooth control, IR and microwave sensors
- High-efficiency LED system saves up to 55% energy

RATINGS & WARRANTY

- ETL Listed — UL 1598:2021 & CSA C22.2 No.250.0:2021 Certified for U.S. and Canadian electrical safety compliance
- FCC / ICES EMC Compliant
- Meets electromagnetic compatibility requirements for commercial environments
- IP65 Dust & Water Protection
- Fully sealed design for dust-tight and water jet resistant performance
- IK10 Impact Resistant
- High mechanical strength against heavy impact and vandal resistance
- ISO 14644-1 Class 3 – 9 Cleanroom Certified
- SGS verified — from semiconductor and pharma to general cleanroom environments
- NSF/ANSI 2:2022 Certified — ETL Sanitation Listed
- Compliant with the latest edition of the food-equipment sanitation standard
- IEC 62471 Photobiological Safety — Exempt Group (RG0)
- All optical radiation metrics verified below safety limits by accredited third-party laboratory
- DLC Listed / LM-79 Tested
- Verified energy efficiency and photometric performance

IP65 Cleanroom lighting

1X4,2X2,2X4

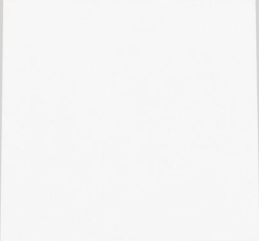


ORDERING INFORMATION

EXAMPLE: WL-2CR14B224/30/36W(30K-35K-40K)

WL-2CR	14	B2	24/30/36W	(30K-35K-40K)
BRAND & PRODUCT	DIMENSION	SERIES	WATTAGE	CCT SELECT
WL-2CR= GEN2 IP65 Clean room Lighting	14=1'X4' 22=2'X2' 24=2'X4'	B2= 3CCT select, 3Watt select	24/30/36W= 24W/30W/36W select 30/45/60W= 30W/45W/60W select 45/67/90W= 45W/67W/90W select	(30K-35K-40K)= 3000K-3500K-4000K Select (35K-40K-50K)= 3500K-4000K-5000K Select (30K-40K-50K)=3000K-4000K-5000K Select

OPTICAL OPTIONS



PC Lens

3.0mm High-impact Polycarbonate, IK10 rated. Maximum durability and shatterproof performance for high-traffic or food-safe areas.



Glass Lens

4.0mm Frosted Tempered Glass, IK08 rated. Provides superior chemical resistance and a soft, glare-free illumination.

SYSTEM & SERVICE OPTIONS



Emergency Backup

Integrated long-life battery system with automatic power-cut detection, delivering 7.5W emergency power for ≥90 minutes.



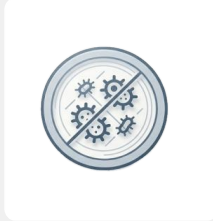
DALI D4i Driver

High-performance intelligent driver supporting advanced dimming control and real-time energy monitoring. Compatible with 120 – 347V input.



20kV Surge Protector

Heavy-duty independent SPD providing superior protection against extreme voltage spikes and lightning interference to maximize fixture lifespan.



Antimicrobial Finish

Specialized powder coating that inhibits the growth of microorganisms and bacteria, providing extra protection for aseptic and clinical environments.



Microwave sensor

Integrated microwave sensor with 0 – 10V dim-to-off control. Factory pre-installed, supports up to 7 fixtures per group.



Junction Box with Flexible Conduit

Pre-wired metal junction box with flexible conduit connector for hardwire installation. Ensures a clean, code-compliant electrical connection.

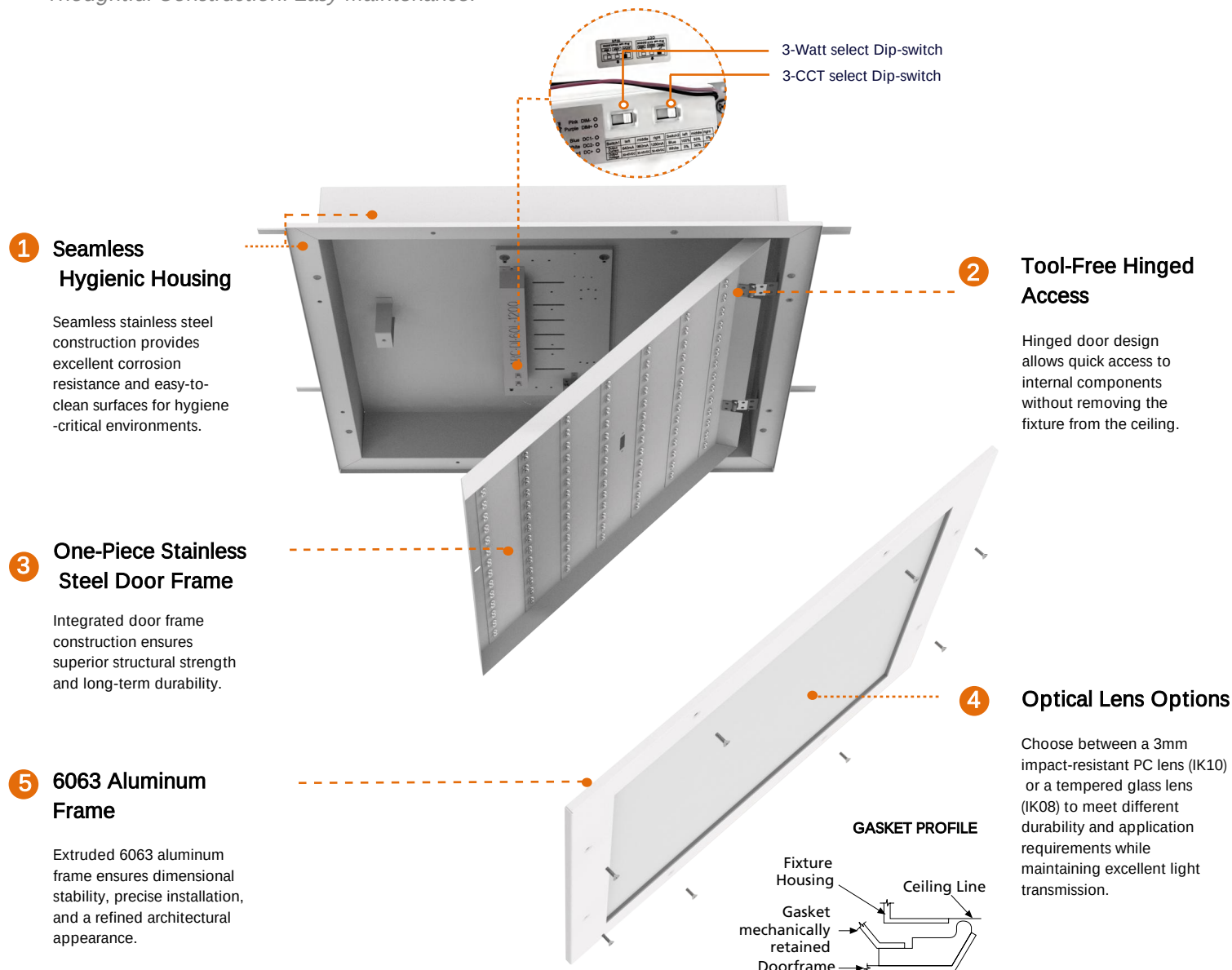
IP65 Cleanroom lighting

1X4,2X2,2X4

WISDOM LIGHT

ENGINEERED FOR RELIABILITY

Thoughtful Construction. Easy Maintenance.



BUILT FOR CLEANROOM DEMANDS



CORROSION RESISTANCE

Premium stainless steel delivers long-term protection in harsh environments.



EASY-TO-CLEAN SURFACES

Smooth, crevice-free design minimizes contamination and simplifies cleaning.



FASTER MAINTENANCE

Tool-free access design reduces maintenance time and labor costs.



LONG-TERM RELIABILITY

Engineered components ensure stable performance and extended service life.

Product design and development is an ongoing process at Shenzhen Wisdom Light Co., Ltd.

We reserve the right to change specifications.

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FILE NAME: IP65 Cleanroom lighting
JUNE, 2026

Tel. +86 755 222 16523
Email. sales@wisdomled.net
www.wisdomled.com

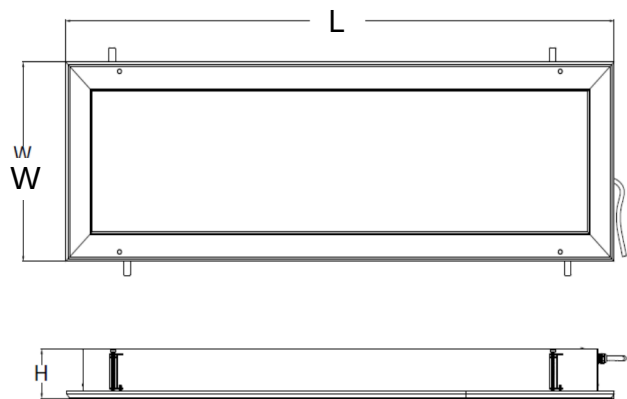
Contact us for the latest product information.

IP65 Cleanroom lighting

1X4,2X2,2X4



DIMENSION



Ceiling Cutout



SIZE	L	W	H	A	B	Weight
1x4 FT	47.75"(1213mm)	11.93"(303mm)	3.54"(90mm)	11.22(285mm)	46.85(1190mm)	17.6 lbs (8.0 kg)
2X2 FT	23.74"(603mm)	23.74"(603mm)	3.54"(90mm)	23.03(585mm)	23.03(585mm)	18.7 lbs (8.5 kg)
2X4 FT	47.75"(1213mm)	23.74"(603mm)	3.54"(90mm)	23.03(585mm)	46.85(1190mm)	33.4 lbs (15.15 kg)

IP65 Cleanroom lighting

1X4,2X2,2X4

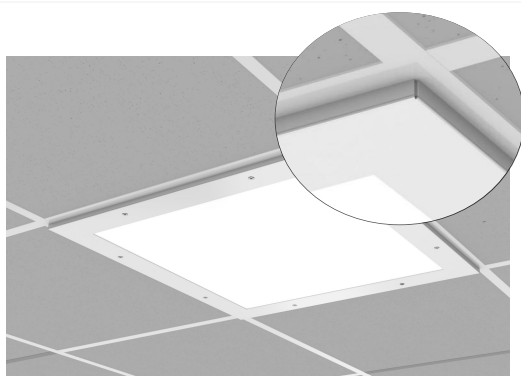
WISDOM LIGHT

T-GRID MOUNTING OPTIONS

T-grid mounting systems provide flexible installation options for different ceiling and project requirements, balancing performance and appearance.

T-GRID SURFACE MOUNT

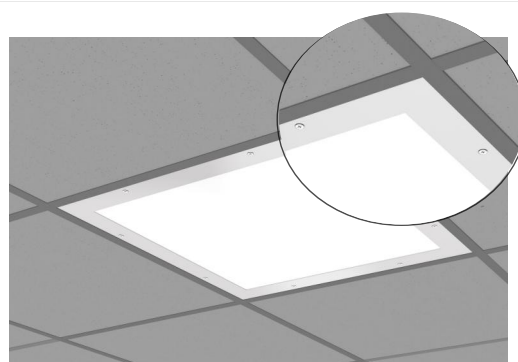
Face frame mounts on top of the T-grid, with the frame exposed below the ceiling tile surface



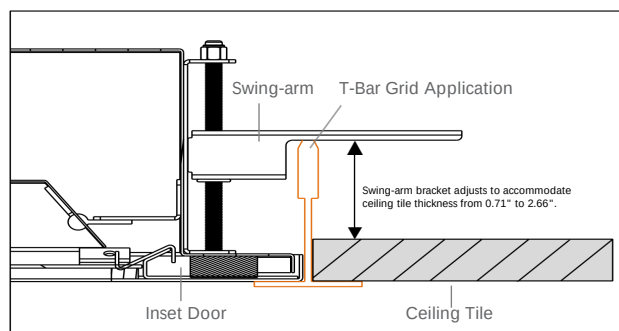
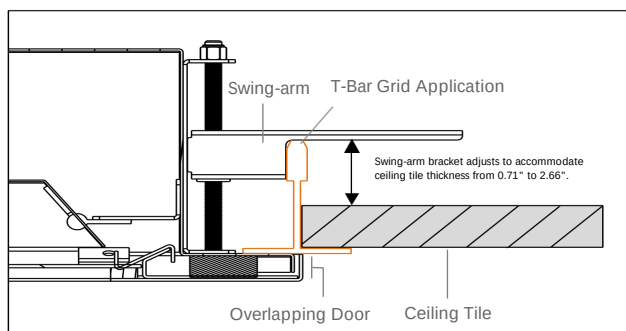
- Fixture face frame sits directly on the T-grid surface, overlapping the ceiling tile edges
- Frame remains fully exposed below the ceiling plane, allowing better heat dissipation
- Provides tool-free access from below for maintenance without disturbing the ceiling tile

T-GRID RECESSED MOUNT

Fixture body recesses into the T-grid opening; the T-bar edges remain visible around the fixture perimeter, similar to a standard troffer installation



- Fixture housing is recessed within the T-grid ceiling opening
- T-grid bars remain visible bordering the fixture edge, consistent with troffer-style installation
- Provides a lower-profile, standard-wattage integration for general ceiling grid applications



UNIVERSAL T-BAR COMPATIBILITY



1" T-BAR
(25.4 mm)



1.5" T-BAR
(38.1 mm)



DRYWALL FLANGE
APPLICATIONS

Product design and development is an ongoing process at Shenzhen Wisdom Light Co.,Ltd.

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Contact us for the latest product information.

IP65 Cleanroom lighting

1X4,2X2,2X4

WISDOM LIGHT

QUALITY & COMPLIANCE

Built for Cleanroom Reliability



20 kV

Surge Protection (Optional)



85°C/85% RH

Aging Test



48 h

Salt Spray Test



>90%

Lumen Maintenance



81.7°C

LED Pin Temperature
(50°C Ambient)



5-Year

Warranty

CERTIFICATIONS



NSF/ANSI 2:2022
(latest)



ETL



DLC Premium

LM-79

LM-79



FCC Part 15
Class A

EXEMPT GROUP



IEC 62471:2006 Exempt
Group (RG0) Certified by
LCTECH, all 6 radiation
metrics well below safety
limits



ISO 14644-1
Class 3-9
Cleanroom
Certified

TRUSTED FOR CRITICAL ENVIRONMENTS

Certified, tested and engineered to perform reliably in cleanroom and controlled environments

ENGINEERED FOR RELIABILITY

Every WL-2CR luminaire is developed and tested with a focus on safety, durability and long-term performance in critical environments.



Optical Performance Test (LM-79)

Verified by accredited third-party laboratory.



High Temp & High Humidity Test

85°C / 85% RH, continuous aging test.



Salt Spray Test

48-hour salt spray test, no rust or corrosion.



4x Safety Load Tested

Passed 4x safety load test to ensure installation safety.

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IP65 Cleanroom lighting

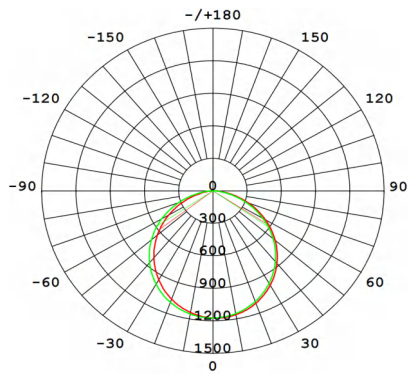
1X4,2X2,2X4

WISDOM LIGHT

IP65 Cleanroom lighting-WL-2CR

1'X4'/24W/RA80/PC Lens/4000K/White

NOMINALFLUX(lm):3277.51,NOMINAL POWER(W):24W,lmax(cd):1175,Efficay: 142.50 Lm/W



AVERAGE BEAM ANGLE(50%):111.0 DEG

Zonal Flux Diagram

γ	C0	C45	C90	C135	C180
10	1161	1159	1150	1146	1139
20	1103	1102	1087	1078	1063
30	1006	1005	985.2	972.7	949.8
40	872.8	874.2	851.1	834.7	806.1
50	712.6	714.1	689.4	669.7	636.3
60	531.0	531.0	504.0	484.9	449.3
70	334.8	333.3	304.8	287.3	253.4
80	143.1	138.8	113.1	100.4	75.45
90	4.984	2.920	0.1807	0.1621	0.1454
DEG	LUMINOUSINTENSITY:cd/klm				

Zonal Lumens

γ	φzone	φ total
00-10	110.9	110.9
10-20	317.2	428.1
20-30	479.3	907.4
30-40	575.6	1483
40-50	593.9	2077
50-60	531.8	2609
60-70	398.0	3007
70-80	217.0	3224
80-90	50.00	3274
UNIT:lm/klm		

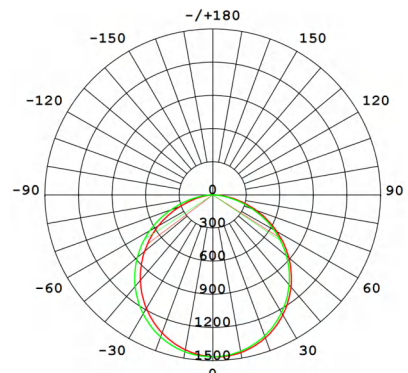
LUMINANCE cd/(m2)

G(DEG)	C0/180	C90/270
85	2832	1767
80	3180	2517
75	3522	3060
70	3779	3442
65	3965	3703
60	4100	3894
55	4201	4038
50	4280	4143
45	4349	4225

IP65 Cleanroom lighting-WL-2CR

1'X4'/30W/RA80/PC Lens/4000K/White

NOMINALFLUX(lm):4092.81,NOMINAL POWER(W):30W,lmax(cd):1466,Efficay: 141.62 Lm/W



AVERAGE BEAM ANGLE(50%):110.9 DEG

Zonal Flux Diagram

γ	C0	C45	C90	C135	C180
10	1449	1447	1436	1431	1423
20	1376	1375	1357	1347	1328
30	1254	1255	1230	1215	1188
40	1088	1091	1062	1042	1008
50	887.7	890.9	859.9	836.5	796.7
60	659.6	661.9	628.4	604.2	563.9
70	416.3	414.9	379.5	357.8	318.8
80	176.8	174.5	140.9	125.8	96.31
90	5.564	3.583	0.2673	0.2542	0.184
DEG	LUMINOUSINTENSITY:cd/klm				

Zonal Lumens

γ	φzone	φ total
00-10	138.5	138.5
10-20	396.1	534.6
20-30	598.4	1133
30-40	718.6	1852
40-50	741.4	2593
50-60	664.0	3257
60-70	496.9	3754
70-80	271.3	4025
80-90	62.33	4088
UNIT:lm/klm		

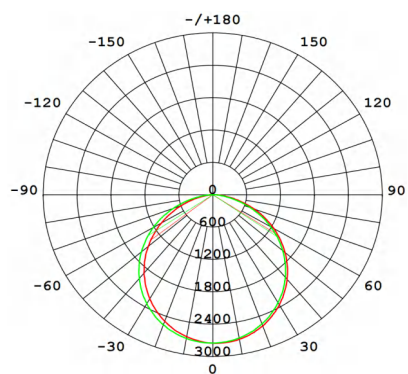
LUMINANCE cd/(m2)

G(DEG)	C0/180	C90/270
85	3400	2177
80	3933	3134
75	4372	3815
70	4703	4286
65	4930	4615
60	5097	4854
55	5231	5035
50	5335	5167
45	5416	5271

IP65 Cleanroom lighting-WL-2CR

1'X4'/60W/RA80/PC Lens/4000K/White

NOMINALFLUX(lm):7681.23,NOMINAL POWER(W):60W,lmax(cd):2756,Efficay:131.30Lm/W



AVERAGE BEAM ANGLE(50%):110.9 DEG

Zonal Flux Diagram

γ	C0	C45	C90	C135	C180
10	2720	2716	2696	2686	2673
20	2588	2580	2548	2531	2494
30	2355	2356	2308	2281	2231
40	2045	2046	1999	1957	1895
50	1671	1672	1617	1570	1492
60	1243	1241	1181	1133	1056
70	782.6	777.4	713.2	670.3	596.2
80	331.0	325.0	262.1	240.6	184.4
90	10.21	6.475	0.3809	0.365	0.3251
DEG	LUMINOUSINTENSITY:cd/klm				

Zonal Lumens

γ	φzone	φ total
00-10	260.2	260.2
10-20	743.7	1004
20-30	1124	2128
30-40	1350	3478
40-50	1393	4870
50-60	1246	6116
60-70	932.1	7048
70-80	507.1	7555
80-90	116.8	7672
UNIT:lm/klm		

LUMINANCE cd/(m2)

G(DEG)	C0/180	C90/270
85	6350	3936
80	7352	5828
75	8159	7106
70	8826	8051
65	9248	8669
60	9586	9117
55	9830	9463
50	10025	9713
45	10186	9900

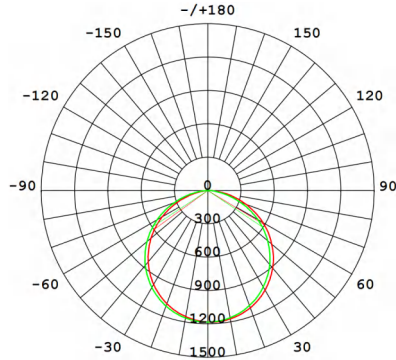
IP65 Cleanroom lighting

1X4,2X2,2X4

WISDOM LIGHT

IP65 Cleanroom lighting-WL-2CR

2'X4'/24W/RA80/PC Lens/4000K/White



AVERAGE BEAM ANGLE(50%):113.1 DEG

NOMINALFLUX(lm):3386,NOMINAL POWER(W):24W,lmax(cd):1184,Efficay:145.95lm/W

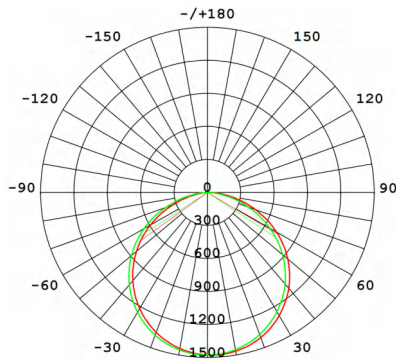
Zonal Flux Diagram					
Y	C0	C45	C90	C135	C180
10	1172	1169	1162	1161	1152
20	1122	1115	1100	1099	1083
30	1034	1024	1001	999.0	976.5
40	910.5	898.2	869.0	865.3	836.8
50	753.8	740.8	705.6	701.1	668.4
60	572.3	556.9	518.4	512.3	477.0
70	368.4	353.8	313.0	307.4	269.9
80	166.7	151.8	119.4	111.2	81.11
90	13.47	5.326	0.1692	0.1550	0.1526
DEG	LUMINOUSINTENSITY:cd/klm				

Zonal Lumens		
Y	Φ zone	Φ total
00-10	112.0	112.0
10-20	321.1	433.1
20-30	487.9	921.0
30-40	590.1	1511
40-50	613.9	2125
50-60	554.3	2679
60-70	417.5	3097
70-80	230.0	3327
80-90	55.26	3382
UNIT:lm/klm		

LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2548	1379
80	2666	1910
75	2848	2280
70	2992	2542
65	3104	2737
60	3179	2880
55	3228	2980
50	3257	3049
45	3286	3107

IP65 Cleanroom lighting-WL-2CR

2'X4'/30W/RA80/PC Lens/4000K/White



AVERAGE BEAM ANGLE(50%):113.1 DEG

NOMINALFLUX(lm):4228.71,NOMINAL POWER(W):30W,lmax(cd):1479,Efficay:144.82lm/W

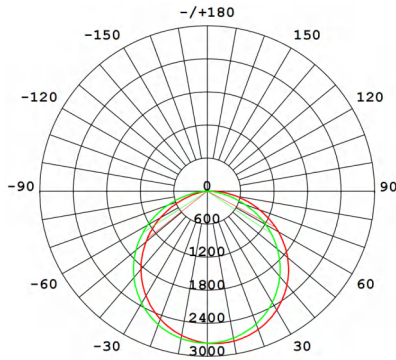
Zonal Flux Diagram					
Y	C0	C45	C90	C135	C180
10	1465	1460	1451	1450	1439
20	1403	1394	1374	1372	1352
30	1292	1280	1250	1247	1220
40	1138	1123	1086	1080	1045
50	942.6	926.0	882.7	875.7	835.0
60	715.2	695.6	647.4	639.6	595.7
70	460.7	442.1	393.3	383.6	337.0
80	209.3	191.6	149.5	140.8	101.1
90	17.18	6.985	0.2174	0.2035	0.1842
DEG	LUMINOUSINTENSITY:cd/klm				

Zonal Lumens		
Y	Φ zone	Φ total
00-10	139.8	139.8
10-20	401.0	540.9
20-30	609.3	1150
30-40	737.0	1887
40-50	766.6	2654
50-60	692.2	3346
60-70	521.4	3867
70-80	287.4	4155
80-90	69.10	4224
UNIT:lm/klm		

LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3204	1752
80	3348	2391
75	3566	2862
70	3742	3194
65	3878	3428
60	3973	3597
55	4038	3722
50	4073	3814
45	4105	3879

IP65 Cleanroom lighting-WL-2CR

2'X4'/60W/RA80/PC Lens/4000K/White



AVERAGE BEAM ANGLE(50%):112.9 DEG

NOMINALFLUX(lm):7918.97,NOMINAL POWER(W):60W,lmax(cd):2773,Efficay:132.20lm/W

Zonal Flux Diagram					
Y	C0	C45	C90	C135	C180
10	2763	2742	2708	2688	2659
20	2673	2634	2565	2522	2470
30	2491	2438	2334	2272	2198
40	2224	2158	2023	1943	1851
50	1879	1804	1642	1542	1437
60	1470	1381	1203	1092	976.5
70	1003	912.6	724.4	612.4	496.4
80	518.1	438.1	269.8	182.4	94.43
90	109.3	57.48	0.4221	0.4724	0.4266
DEG	LUMINOUSINTENSITY:cd/klm				

Zonal Lumens		
Y	Φ zone	Φ total
00-10	261.1	261.1
10-20	748.9	1010
20-30	1138	2148
30-40	1376	3524
40-50	1431	4955
50-60	1291	6247
60-70	973.2	7220
70-80	539.6	7759
80-90	145.8	7905
UNIT:lm/klm		

LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	9427	2983
80	8288	4316
75	8187	5204
70	8147	5884
65	8163	6356
60	8167	6685
55	8154	6931
50	8119	7094
45	8096	7235