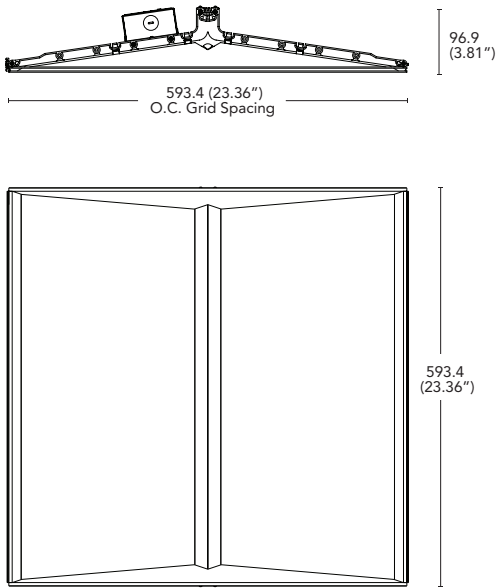


2' x 2' LED Troffer

Recessed LED troffer with a beautiful gable shaped luminous lens providing ambient illumination from Soraa's unparalleled full spectrum and Natural White™ accurate color and white rendering LED with 95 CRI / 95 R9 and White Rendering Index of 100.



Soraa LED

The highest possible quality ambient light is provided by Soraa LEDs, available in 3000K, 3500K, and 4000K with 95 CRI / 95 R9. Lumen maintenance is 50,000 hours at 70% lumen output.

Soraa Optics

Precision formed optical assembly provides beautiful, even light distribution.

Construction

Injection molded endplates and extruded aluminum frame provide strength, rigidity and tight tolerances. Gridlock features are built into the endplates for additional safety and convenience. Four suspension points and seismic clips are provided. Large access plate is designed in to enable supply connection. Drivers can be accessed via plenum.

Finish

Durable frame has high reflectance baked matte white enamel finish for luminous uniformity.

Weight

Luminaire: max. 7031gm; additional battery backup & hardware 1814gm.

Emergency Battery Pack

Optional 120V-277V integral emergency battery pack is available in 7 or 14 watts to meet critical life-safety lighting requirements. 90-minute batteries provide constant power to the LED system, ensuring code compliance.

Compliance

Luminaire cULus listed and IC rated. Rated for damp locations. Chicago plenum rated.

Operating Temperature

Minimum -40°C, 25°C typical.

Warranty

Five year warranty.



Build Your Luminaire Sample Part Number: GB22 - 35 - 935- UNV - DM1

Series	Delivered Lumens	CCT/CRI	Voltage	Driver	Options	Accessories (Order Separately)
GB22	25 2500 lm	930 3000K/95	UNV 120-277V Universal	DM1 0-10V (1% min)	Blank None	AMB-W3 3 wire whip for non-dimming option
	35 3500 lm	935 3500K/95		LU1 Lutron L3DAE Hi-lume 1% EcoSystem LED	EM7 7W Emergency Battery Pack Installed	AMB-W4 4 wire whip for non-dimming with emergency battery pack option
		940 4000K/95		LU2 Lutron L3DA3W Hi-lume 1% 3-wire LED	EM14 14W Emergency Battery Pack Installed	AMB-W5 5 wire whip for 0-10V dimming option
				EL1 eldoLED Solo-Drive 0% Dim		
				EL2 eldoLED Eco-Drive 1% Dim		

Photometrics: Soraa Gable 2 x 2

GB22-35 (3500 lm)

Coefficients Of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

rc	80				70				50				30				10				0
rw	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	0
RCR																					0
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	89	94	92	89	87	91	89	87	85	85
2	100	92	85	80	97	90	84	79	86	81	77	73	83	79	75	71	80	77	74	71	71
3	91	81	73	67	89	80	72	66	77	70	65	61	74	69	64	61	71	67	63	61	61
4	84	72	64	57	82	71	63	57	68	62	56	52	66	60	55	52	64	59	55	52	52
5	77	65	56	50	75	64	55	49	62	54	49	45	60	53	48	45	58	52	48	46	46
6	72	59	50	44	70	58	49	43	56	48	43	39	54	48	43	39	53	47	42	40	40
7	66	53	45	39	65	52	44	39	51	44	38	34	49	43	38	34	48	42	38	36	36
8	62	49	40	35	60	48	40	34	47	39	34	30	45	39	34	30	44	38	34	32	32
9	58	45	37	31	57	44	36	31	43	36	31	27	42	35	31	27	41	35	31	29	29
10	54	41	34	28	53	41	33	28	40	33	28	24	39	33	28	24	38	32	28	26	26

Spacing Criteria

(||) 1.36 x mounting height,
(⊥) 1.28 x mounting height

UGR

<19

Zonal Lumen Summary

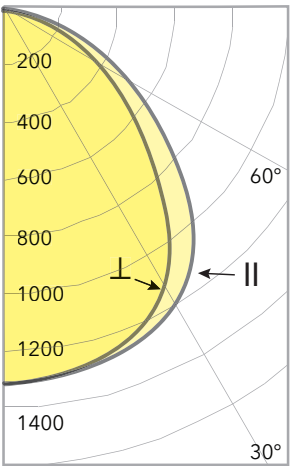
Zone	Lumens	% Fixt
0-30	1054	30.1
0-40	1725	49.2
0-60	2872	82.0
0-90	3500	100.0
0-180	3500	100.0

Base Configuration

Driver: LPL
CCT: 3500K

Scaling

3000K	0.95
4000K	1.03
EldoLED Driver	0.975
Lutron Driver	1.025



Candlepower

	Along	45°	Across ⊥
0°	1410	1410	1410
5°	1402	1402	1408
10°	1381	1385	1390
15°	1345	1351	1359
20°	1292	1302	1316
25°	1220	1233	1252
30°	1117	1137	1160
35°	990	1012	1036
40°	846	868	890
45°	704	716	725
50°	574	573	572
55°	460	453	446
60°	365	358	352
65°	288	281	278
70°	221	215	217
75°	159	155	161
80°	98	95	104
85°	46	38	42
90°	0	0	0

GB22-25 (2500 lm)

Coefficients Of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

rc	80				70				50				30				10				0
rw	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	0
RCR																					0
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	89	94	92	89	87	91	89	87	85	85
2	100	92	85	80	97	90	84	79	86	81	77	73	83	79	75	71	80	77	74	71	71
3	91	81	73	67	89	80	72	66	77	70	65	61	74	69	64	61	71	67	63	61	61
4	84	72	64	57	82	71	63	57	68	62	56	52	66	60	55	52	64	59	55	52	52
5	77	65	56	50	75	64	55	49	62	54	49	45	60	53	48	45	58	52	48	46	46
6	72	59	50	44	70	58	49	43	56	48	43	39	54	48	43	39	53	47	42	40	40
7	66	53	45	39	65	52	44	39	51	44	38	34	49	43	38	34	48	42	38	36	36
8	62	49	40	35	60	48	40	34	47	39	34	30	45	39	34	30	44	38	34	32	32
9	58	45	37	31	57	44	36	31	43	36	31	27	42	35	31	27	41	35	31	29	29
10	54	41	34	28	53	41	33	28	40	33	28	24	39	33	28	24	38	32	28	26	26

Spacing Criteria

(||) 1.36 x mounting height,
(⊥) 1.28 x mounting height

UGR

<19

Zonal Lumen Summary

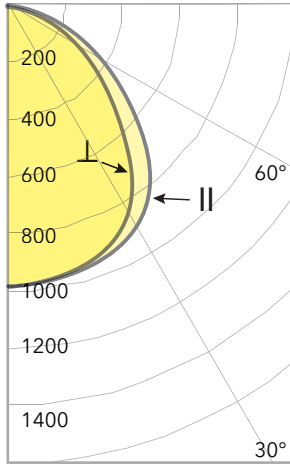
Zone	Lumens	% Fixt
0-30	753	30.1
0-40	1232	49.2
0-60	2052	82.0
0-90	2500	100.0
0-180	2500	100.0

Base Configuration

Driver: LPL
CCT: 3500K

Scaling

3000K	0.95
4000K	1.03
EldoLED Driver	0.975
Lutron Driver	1.025



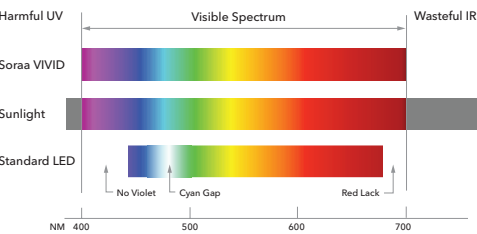
Candlepower

	Along	45°	Across ⊥
0°	1101	1101	1101
5°	1095	1095	1100
10°	1079	1082	1086
15°	1051	1055	1062
20°	1010	1017	1028
25°	953	963	978
30°	873	888	906
35°	773	790	809
40°	661	678	695
45°	550	560	566
50°	448	448	447
55°	359	354	349
60°	286	279	275
65°	225	219	217
70°	173	168	170
75°	124	121	126
80°	76	74	81
85°	36	30	33
90°	0	0	0

Efficacy

SKU	CCT	Driver	Delivered Lumens	Power (W)	Lm/W	SKU	CCT	Driver	Delivered Lumens	Power (W)	Lm/W
GB22-25-930-UNV-DM1	3000	0-10V, 1% Minimum	2400	39	63	GB22-35-935-UNV-DM1	3500	0-10V, 1% Minimum	3500	53	66
GB22-25-930-UNV-LU1	3000	Lutron L3DAE Hi-lume 1% EcoSystem LED driver	2400	40	61	GB22-35-935-UNV-LU1	3500	Lutron L3DAE Hi-lume 1% EcoSystem LED driver	3500	54	64
GB22-25-930-UNV-LU2	3000	Lutron L3DA3W Hi-lume 1% 3-wire LED driver	2400	40	61	GB22-35-935-UNV-LU2	3500	Lutron L3DA3W Hi-lume 1% 3-wire LED driver	3500	54	64
GB22-25-930-UNV-EL1	3000	eldoLED Solo-Drive 0% Dim	2400	38	64	GB22-35-935-UNV-EL1	3500	eldoLED Solo-Drive 0% Dim	3500	52	67
GB22-25-930-UNV-EL2	3000	eldoLED Eco-Drive 1% Dim	2400	38	64	GB22-35-935-UNV-EL2	3500	eldoLED Eco-Drive 1% Dim	3500	52	67
GB22-35-930-UNV-DM1	3000	0-10V, 1% Minimum	3300	53	63	GB22-25-940-UNV-DM1	4000	0-10V, 1% Minimum	2600	39	68
GB22-35-930-UNV-LU1	3000	Lutron L3DAE Hi-lume 1% EcoSystem LED driver	3300	54	61	GB22-25-940-UNV-LU1	4000	Lutron L3DAE Hi-lume 1% EcoSystem LED driver	2600	40	66
GB22-35-930-UNV-LU2	3000	Lutron L3DA3W Hi-lume 1% 3-wire LED driver	3300	54	61	GB22-25-940-UNV-LU2	4000	Lutron L3DA3W Hi-lume 1% 3-wire LED driver	2600	40	66
GB22-35-930-UNV-EL1	3000	eldoLED Solo-Drive 0% Dim	3300	52	64	GB22-25-940-UNV-EL1	4000	eldoLED Solo-Drive 0% Dim	2600	38	70
GB22-35-930-UNV-EL2	3000	eldoLED Eco-Drive 1% Dim	3300	52	64	GB22-25-940-UNV-EL2	4000	eldoLED Eco-Drive 1% Dim	2600	38	70
GB22-25-935-UNV-DM1	3500	0-10V, 1% Minimum	2500	39	66	GB22-35-940-UNV-DM1	4000	0-10V, 1% Minimum	3600	53	68
GB22-25-935-UNV-LU1	3500	Lutron L3DAE Hi-lume 1% EcoSystem LED driver	2500	40	64	GB22-35-940-UNV-LU1	4000	Lutron L3DAE Hi-lume 1% EcoSystem LED driver	3600	54	66
GB22-25-935-UNV-LU2	3500	Lutron L3DA3W Hi-lume 1% 3-wire LED driver	2500	40	64	GB22-35-940-UNV-LU2	4000	Lutron L3DA3W Hi-lume 1% 3-wire LED driver	3600	54	66
GB22-25-935-UNV-EL1	3500	eldoLED Solo-Drive 0% Dim	2500	38	68	GB22-35-940-UNV-EL1	4000	eldoLED Solo-Drive 0% Dim	3600	52	69
GB22-25-935-UNV-EL2	3500	eldoLED Eco-Drive 1% Dim	2500	38	68	GB22-35-940-UNV-EL2	4000	eldoLED Eco-Drive 1% Dim	3600	52	69

Soraa Ambient Color and Whiteness Rendering



Soraa has engineered the perfect balance between color rendering and white rendering. Soraa's core technology uses a violet LED emitter as the basis for full spectrum light. This allows both Vivid™ color rendering and Natural White™ white rendering, which creates whiteness by exciting fluorescing agents with violet radiation, without the harmful effect of UV.

CCT	CRI	R9	Rf	Rg	Rfh1	Rw	McA
3000	95	95	90	100	90	100	3
3500	95	95	90	100	90	100	3
4000	95	95	90	100	90	70	4

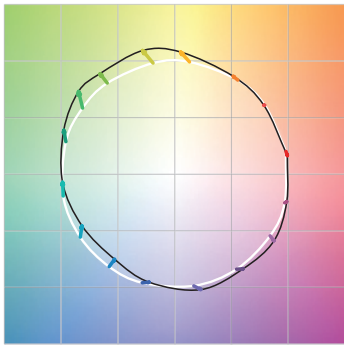
Rf: The TM-30 metric for color fidelity (similarity to colors under natural light), a more accurate version of the CRI Ra. Rf is 100 for natural light.

Rg: The TM-30 metric for color gamut (whether colors are more saturated than under natural light). Rg is 100 for natural light.

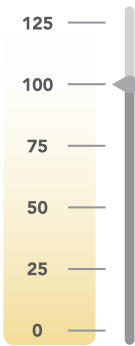
Rfh1: The TM-30 metric for color fidelity for red tones. Rfh1 is a more accurate version of the CRI R9. Rfh1 is 100 for natural light.

Rw: The Soraa-developed metric for white fidelity. Rw measures the magnitude of excitation of whitening agents within white materials. Rw is 100 for natural light.

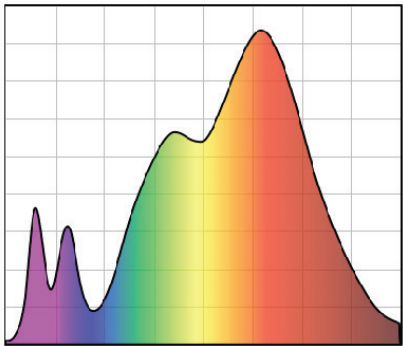
3000K



Rf: 90, Rg: 100, Rfh1: 90

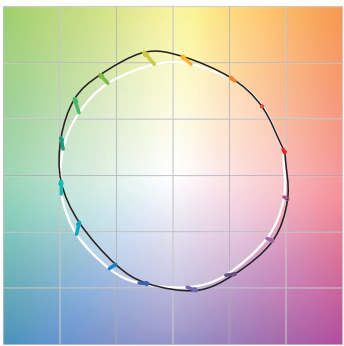


Rw: 100

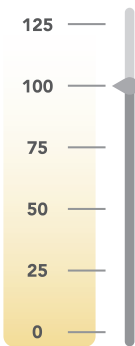


CRI: 95, R9: 95

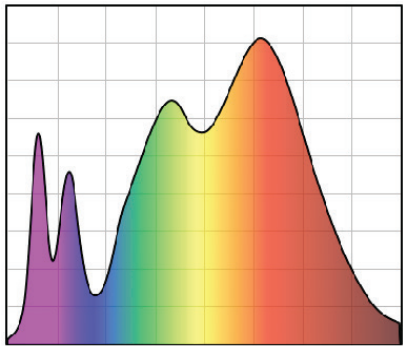
3500K



Rf: 90, Rg: 100, Rfh1: 90

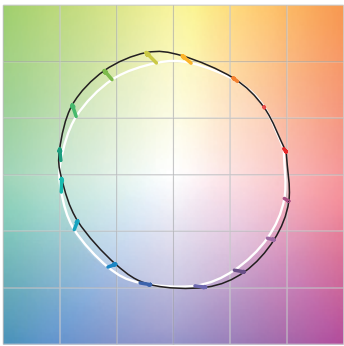


Rw: 100

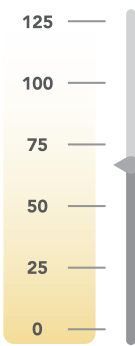


CRI: 95, R9: 95

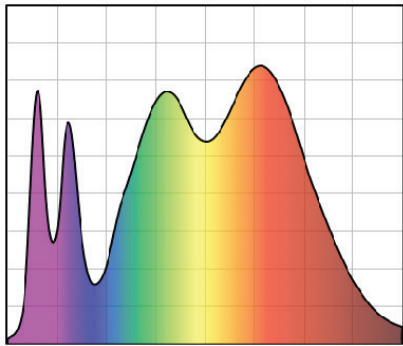
4000K



Rf: 90, Rg: 100, Rfh1: 90



Rw: 70



CRI: 95, R9: 95