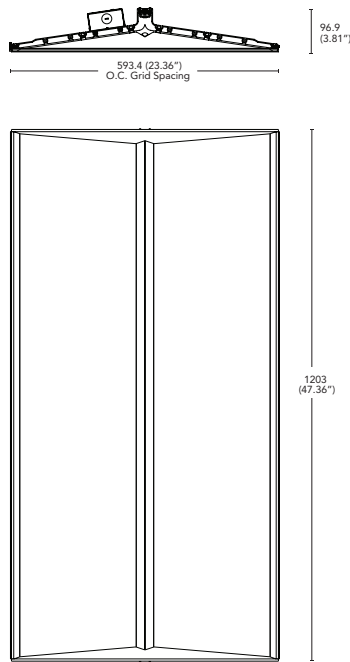


Recessed LED troffer with a beautiful gable shaped luminous lens providing ambient illumination from Soraa's unparalleled full spectrum and Natural White™ accurate color and white rendering LED with 95 CRI / 95 R9 and White Rendering Index of 120.



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. 11567gm; 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: GB24 - 57 - 935- UNV - DM1

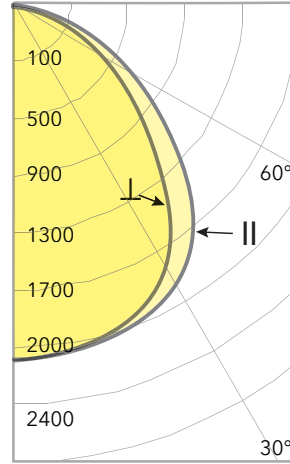
Series	Delivered Lumens	CCT/CRI/CRI	Voltage	Driver	Options	Accessories (Order Separately)
GB24	57 5700 lm	930 3000K/95	UNV 120-277V Universal	DM1 0-10V (1% min)	Blank None EM7 7W Emergency Battery Pack Installed EM14 14W Emergency Battery Pack Installed	AMB-W3 3 wire whip for non-dimming option AMB-W4 4 wire whip for non-dimming with emergency battery pack option AMB-W5 5 wire whip for 0-10V dimming option
		935 3500K/95		LU1 Lutron L3DAE Hi-lume 1% EcoSystem LED		
		940 4000K/95		LU2 Lutron L3DA3W Hi-lume 1% 3-wire LED		
				EL1 eldoLED Solo-Drive 0% Dim EL2 eldoLED Eco-Drive 1% Dim		

Photometrics: Soraa Gable 2 x 4

GB24-57 (5700 lm)

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

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



Candlepower

	Along II	45°	Across ⊥
0	2140	2140	2140
5	2135	2136	2135
10	2132	2126	2115
15	2120	2104	2084
20	2086	2066	2040
25	2037	2000	1963
30	1955	1904	1851
35	1842	1766	1684
40	1694	1583	1463
45	1505	1365	1217
50	1303	1133	979
55	1082	915	783
60	875	729	625
65	691	572	497
70	530	440	382
75	392	321	277
80	260	203	166
85	138	86	52
90	0	0	0

Spacing Criteria

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

UGR

<19

Zonal Lumen Summary

Zone	Lumens	% Fixt
0-30	1716	30.1
0-40	2809	49.2
0-60	4678	82.0
0-90	5700	100.0
0-180	5700	100.0

Base Configuration

Driver: LPL
CCT: 3500K

Scaling

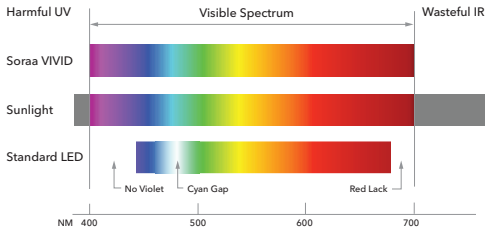
3000K	0.95
4000K	1.03
EldoLed Driver	0.975
Lutron Driver	1.025

Efficacy

SKU	CCT	Driver	Delivered Lumens	Power (W)	Lm/W
GB24-57-930-UNV-DM1	3000	0-10V, 1% Minimum	5400	87	62
GB24-57-930-UNV-LU1	3000	Lutron L3DAE Hi-lume 1% EcoSystem LED driver	5400	89	61
GB24-57-930-UNV-LU2	3000	Lutron L3DA3W Hi-lume 1% 3-wire LED driver	5400	89	61
GB24-57-930-UNV-EL1	3000	eldoLED Solo-Drive 0% Dim	5400	85	64
GB24-57-930-UNV-EL2	3000	eldoLED Eco-Drive 1% Dim	5400	85	64
GB24-57-935-UNV-DM1	3500	0-10V, 1% Minimum	5700	87	66
GB24-57-935-UNV-LU1	3500	Lutron L3DAE Hi-lume 1% EcoSystem LED driver	5700	89	64
GB24-57-935-UNV-LU2	3500	Lutron L3DA3W Hi-lume 1% 3-wire LED driver	5700	89	64
GB24-57-935-UNV-EL1	3500	eldoLED Solo-Drive 0% Dim	5700	85	67
GB24-57-935-UNV-EL2	3500	eldoLED Eco-Drive 1% Dim	5700	85	67
GB24-57-940-UNV-DM1	4000	0-10V, 1% Minimum	5800	87	68
GB24-57-940-UNV-LU1	4000	Lutron L3DAE Hi-lume 1% EcoSystem LED driver	5800	89	66
GB24-57-940-UNV-LU2	4000	Lutron L3DA3W Hi-lume 1% 3-wire LED driver	5800	89	66
GB24-57-940-UNV-EL1	4000	eldoLED Solo-Drive 0% Dim	5800	85	69
GB24-57-940-UNV-EL2	4000	eldoLED Eco-Drive 1% Dim	5800	85	69

Soraa Ambient Color and Whiteness Rendering

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



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.

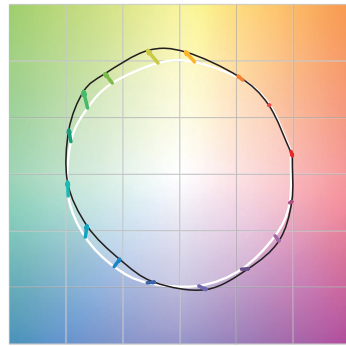
Rf: The TM-30 metric for color fidelity (similarity to colors under natural light), a more accurate version of the CRI Ra. Rf is 100 for natural light.

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

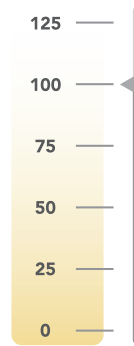
Rfh1: The TM-30 metric for color fidelity for red tones. Rfh1 is a more accurate version of the CRI R9. Rfh1 is 100 for natural light.

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.

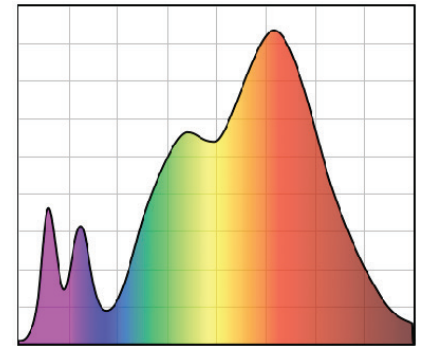
3000K



Rf: 90, Rg: 100, Rfh1: 90

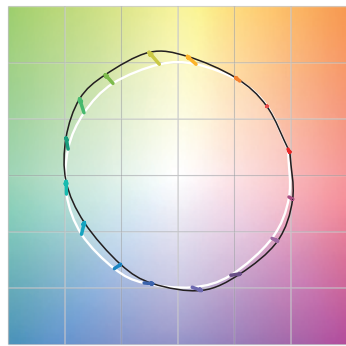


Rw: 100

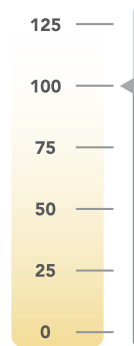


CRI: 95, R9: 95

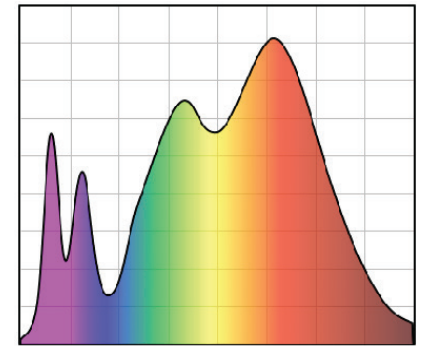
3500K



Rf: 90, Rg: 100, Rfh1: 90

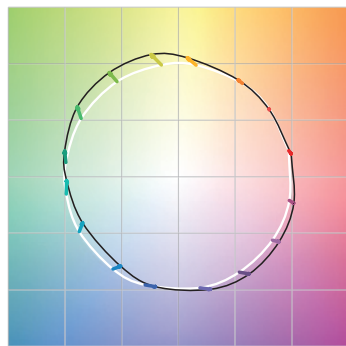


Rw: 100

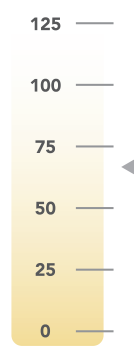


CRI: 95, R9: 95

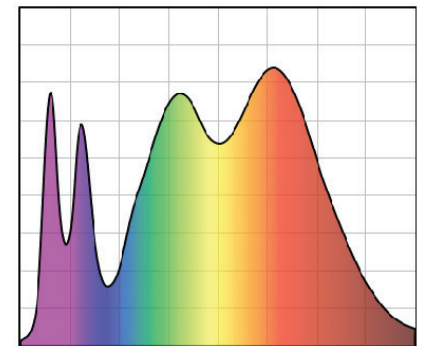
4000K



Rf: 90, Rg: 100, Rfh1: 90



Rw: 70



CRI: 95, R9: 95