

Lumination™ LED Luminaires

Wrap Surface Mount
WS Series



Project name _____

Date _____

Type _____

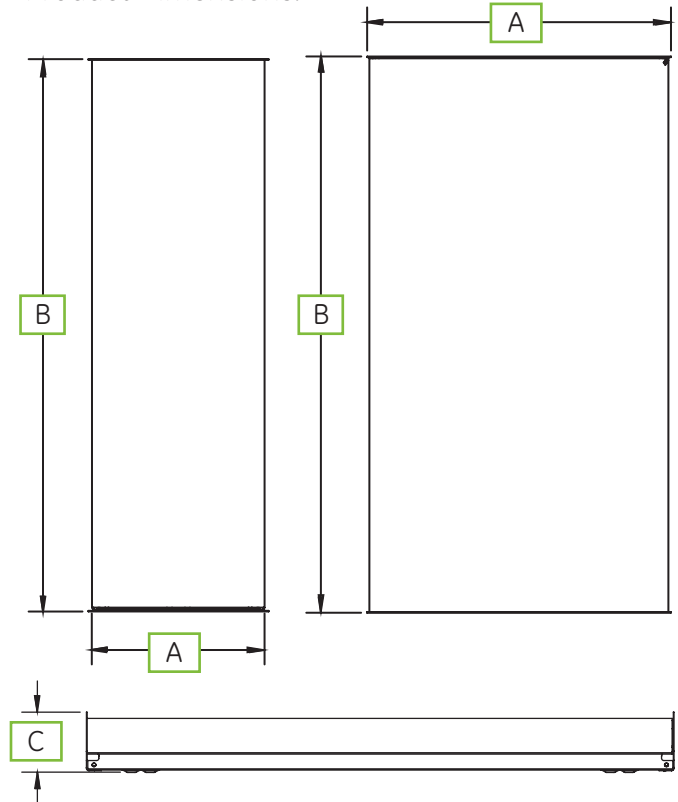
Product Description:

The Lumination WS Series LED Luminaire is a commercial ceiling fixture that provides high uniformity, excellent efficiency and reduced glare. The improved lumen maintenance of L70 of initial lumens at 50,000 hours of operation allows lower maintenance costs over time.


Performance Summary:

Distribution Patterns: Lambertian
Delivered Lumen Output: 3200 to 8000 lm (4000K)
System Input Power: 30-72 W
Efficacy: 103-113 LPW (4000K)
Input Voltage: 120-277V
CCT: 4000K
Typical CRI: 80+, R9: >0
Color Consistency: 4 Step MacAdam Ellipse
Lifetime Rating: 50,000 Hours @ L70
Input Frequency (Hz): 50/60Hz
Power Factor: >0.9
THD: <20%
Mounting: Surface Mount w/Pre-drilled mounting holes
Maximum Weight: 14 lbs (6.35 kg)
Limited Warranty: 5 Years Standard
Files Available: LM79, LM80, IES

Product Dimensions:



2' Narrow: A = 7 in (177.8mm) B = 24 in (609.6mm) C = 2.5 in (63.5mm)
2' Wide: A = 14 in (355.6mm) B = 24 in (609.6mm) C = 2.5 in (63.5mm)
4' Narrow: A = 7 in (177.8mm) B = 48 in (1219.2mm) C = 2.5 in (63.5mm)
4' Wide: A = 14 in (355.6mm) B = 48 in (1219.2mm) C = 2.5 in (63.5mm)

Certified by: 

Ordering Information:

a product of
ecomagination™

<u>W</u> <u>S</u>	<u>0</u>	<u>S</u>	<u>V</u>	<u>W H T E</u>			
INTERNAL CODE	FIXTURE TYPE (NOMINAL)	VOLTAGE	OPTICAL CODE	MOUNTING	CONTROLLER	FINISH	OPTIONS

W = Wrap
S = Surface Mount
2N = 2' Narrow (7")
2W = 2' Wide (14")
4N = 4' Narrow (7")
4W = 4' Wide (14")
0 = 120-277V (UL Version)
S = Surface
V = 0-10V Dimming
WHITE = White
Blank if no options

DIMENSION	OPTICAL CODE	DISTRIBUTION TYPE	CRI	COLOR TEMP (K)	TYPICAL LUMENS	SYSTEM WATTAGE	EFFICACY (LPW)
2N = 2' Narrow (7")	A3	Lambertian	80	4000	3200	31	103
2W = 2' Wide (14")	A3	Lambertian	80	4000	4300	41	105
4N = 4' Narrow (7")	A3	Lambertian	80	4000	5600	51	110
4W = 4' Wide (14")	A3	Lambertian	80	4000	8000	72	113



Photometric Data: 4' Wide - WS4W

WS-4W-0-A3-S-V-WHTE-DRAFT.IES

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	277.15
10-20	784.06
20-30	1152.75
30-40	1329.22
40-50	1305.34
50-60	1128.07
60-70	865.05
70-80	563.47
80-90	246.15
90-100	86.73
100-110	74.71
110-120	61.91
120-130	48.12
130-140	34.66
140-150	22.71
150-160	12.70
160-170	5.69
170-180	1.52

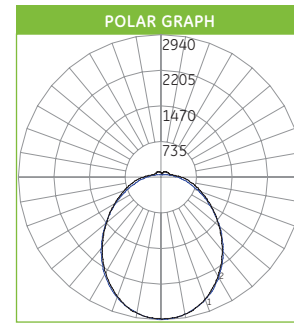
COEFFICIENTS OF UTILIZATION																			
RC	80%					70%				50%			30%			10%			0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96	
1	107	102	98	94	104	100	96	92	95	91	88	90	87	85	86	84	82	79	
2	98	89	82	77	95	87	81	75	83	78	73	79	75	71	75	72	68	66	
3	89	79	70	64	86	77	69	63	73	67	61	70	64	60	67	62	58	56	
4	82	70	61	54	79	68	60	54	65	58	53	62	56	51	60	55	50	48	
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	42	
6	70	56	48	41	67	55	47	41	53	46	40	51	44	39	49	43	39	37	
7	65	51	43	37	63	50	42	36	48	41	36	47	40	35	45	39	35	33	
8	60	47	38	33	58	46	38	32	44	37	32	43	36	32	41	35	31	29	
9	56	43	35	29	55	42	35	29	41	34	29	39	33	29	38	32	28	26	
10	53	40	32	27	51	39	32	27	38	31	26	37	30	26	35	30	26	24	

NOTE: Floor Cavity Reflectance : 20%

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-30°	2213.96	N.A.	27.70
0-40°	3543.17	N.A.	44.30
0-60°	5976.58	N.A.	74.70
0-90°	7651.25	N.A.	95.60
90-120°	223.35	N.A.	2.80
90-130°	271.48	N.A.	3.40
90-150°	328.85	N.A.	4.10
90-180°	348.75	N.A.	4.40
0-180°	8000.00	N.A.	100.00

Total Luminaire Efficiency = N.A.%

LUMINANCE DATA (cd/sq.m)			
Angles	0°	45°	90°
45°	6096	6064	6016
55°	5510	5564	5599
65°	4981	5241	5405
75°	4589	5167	5854
85°	4213	6227	8664



Product Specifications:

Construction:

- Die-formed heavy-gauge steel.
- Smooth hemmed sides for safe handling.

Electrical System:

- Class 2, replaceable, high efficiency LED driver rated for 50,000 hours when used within operating conditions.
- THD: <20%
- Transient Protection: 100 kHz ring wave, 2 kV level

Applications:

- Industrial and garage locations as well as kitchens, offices, and storage locations.

Optical System:

- Precision formed optical assembly comprised of high specular reflectors, and a transmissive lens.
- No visible diodes

Installation:

- Drivers and internal components accessed via bottom of luminaire.

For more information and access to all of our resources, including our design tool visit: www.gelighting.com



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