

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

4" LED 1300 LUMEN SERIES 20 WATT

GRS-04042

## LED • Open Appearance Square Downlight

Up to 90,000 Hour Life • 3 Distributions • Type IC  
LM-80 Qualified • LM-79 Certified Photometry • Wet Location



### Specifications

#### Delivered System Performance\*

- Standard MFL distribution: 1270 delivered lumens / 61 LPW / 0.3 SC.
- -SPT: 1312 lumens / 63 LPW / 0.3 SC.
- -NFL: 1309 lumens / 62 LPW / 0.4 SC.
- -WFL: 1068 lumens / 51 LPW / 1.0 SC.
- 20 watt LED array, 3500°K standard (or see Options -27K, -30K, -40K).
- Up to 83 CR and 90,000 hour life (at 70% maintenance).
- Fully sustainable: removable for servicing.

#### Thermal Management System

- All aluminum proprietary heat sink, components and housing maximize cool operation and long life while minimizing maintenance.

#### LED Power Supply - INTERNAL

- **0-10V CCR dimming standard. (100-10%)**
- 120-277V / 50-60Hz standard. Load insensitive.
- Suitable for outdoor / indoor use. -30°C (-22°F) to 60°C (140°F).

- See Option -EI: Remote emergency inverter for 100% rated lumen output. 120 or 277V.

#### Trim

- Specular clear aluminum self-flanged

#### Acrylic Enameled Aluminum Housing

- Rustproof and corrosion resistant: Exceeds 1000 hour ASTM 5% salt spray test.
- Shallow 6" depth fits restricted plenums.
- Code compliant: suitable for indoor, outdoor, wet, damp or dry locations, covered ceilings.
- Fully painted: Entire luminaire, including LED light engine, is powder coated, visible and serviced through aperture.
- Built-in plaster flange.

#### Outlet Box

- UL listed, max. with insulation, allowable code. Pre-insulated, 1/2" and 3/4" knockouts.

#### Installation

- Recess indoor or outdoor.
- Aluminum housing thickness to 1 1/8" thick.
- 2" galvanized steel bases with adjustable mounting brackets (2) included.



QuickShip Program Luminaire

THIS PRODUCT IS NOW AVAILABLE AS

#### UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings.

- Type IC: for direct contact with insulation. Through-branch conductors (4 #12 AWG 90°C) for Type IC Listing.

#### CE & FCC Compliance

- Meets IES 60601-1-2 & EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment.
- FCC Part 15 certified for EMI/RFI emissions.

#### FIVE YEAR Limited Warranty

- Complete standard fixture.

### Performance at a Glance



LRS-04042

Some design features and options might have changed



## THE KIRLIN COMPANY

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\* See note next page  
\*\* Hours at 70% lumen maintenance

CATALOG NUMBER

GAZELLE EXPRESS: LED LIGHTING

GRS-04042

DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE. THE KIRLIN COMPANY EXPECTS PHOTOMETRIC PERFORMANCE TO IMPROVE SIGNIFICANTLY AND FREQUENTLY AS LED SOURCE TECHNOLOGY IMPROVES.

**Detailed Photometry - Installed Fixture**

Photometric testing done in accordance with IESNA LM-79-08

Photometry from I.T.L., Boulder, CO

**STANDARD (MFL)**

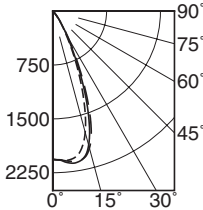
Lumens: 1270  
Beam: ~42°  
SC: 0.8  
LPW: 61  
Effic: 89.5%  
ITL Test: 79835



Total System Watts 19.6

Cone of Light ▲

Dist.	FC	Dia.
6	57.4	4.6
8	32.3	6.2
10	20.7	7.7
12	14.3	9.3
14	10.5	10.8
16	8.1	12.4



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	2065	2065	2065	2065	2065
5	2086	2089	2092	2108	2112
15	1747	1840	1975	1968	1932
25	722	782	885	861	805
35	179	201	210	213	195
45	30	35	48	37	34
55	2	3	8	3	1
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

**Option -SPT**

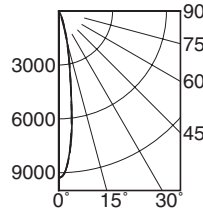
Lumens: 1312  
Beam: ~17°  
SC: 0.3  
LPW: 63  
Effic: 92.5%  
ITL Test: 79833



Total System Watts 19.6

Cone of Light ▲

Dist.	FC	Dia.
6	257.9	1.8
8	145.1	2.4
10	92.8	2.9
12	64.5	3.5
14	47.4	4.1
16	36.3	4.7



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	9284	9284	9284	9284	9284
5	7561	7500	7464	7508	7549
15	1892	1810	1711	1768	1830
25	420	244	221	243	423
35	74	83	88	83	758
45	23	30	38	30	22
55	2	5	14	7	2
65	0	1	1	1	1
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

**Option -NFL**

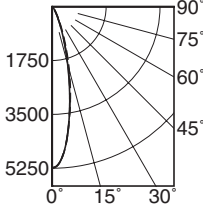
Lumens: 1309  
Beam: ~24°  
SC: 0.4  
LPW: 62  
Effic: 92.2%  
ITL Test: 79834



Total System Watts 19.6

Cone of Light ▲

Dist.	FC	Dia.
6	145.3	2.5
8	81.8	3.3
10	52.3	4.2
12	36.7	5.0
14	26.7	5.9
16	20.4	6.7



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	5232	5232	5232	5232	5232
5	4662	4652	4643	4648	4650
15	2118	2062	1977	1932	1927
25	589	531	478	471	503
35	138	129	123	119	121
45	29	32	42	31	25
55	1	3	9	3	1
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

**Option -WFL**

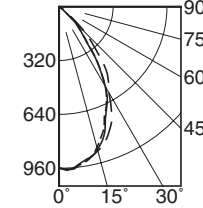
Lumens: 1068  
Beam: ~53°  
SC: 1.0  
LPW: 51  
Efficiency: 73.2%  
ITL Test: 83248



Total System Watts 20.8

Cone of Light ▲

Dist.	FC	Dia.
6	26.6	5.9
8	15.0	7.9
10	9.6	9.9
12	6.7	11.9
14	4.9	13.8
16	3.7	15.8



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	959	959	959	959	959
5	969	967	966	961	962
10	866	884	887	888	878
15	659	674	738	695	665
20	690	436	502	441	380
25	144	164	220	165	137
30	2	4	38	4	2
35	0	0	0	0	0
40	0	0	0	0	0
45	0	0	0	0	0
50	0	0	0	0	0
55	0	0	0	0	0
60	0	0	0	0	0
65	0	0	0	0	0
70	0	0	0	0	0
75	0	0	0	0	0
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

**LM-80 Qualified • LM-79 Certified Photometry**

\* LED manufacturers maintain a tolerance of ±7% on flux (lumens) and power (electrical) measurements. Kirlin photometrics are actual test data from Independent Testing Laboratories (ITL) where photometry was measured from 1418 lumen (20W) and 1459 lumen (20W -WFL) light engines (within the established tolerance).

▲ Cone of Light Key  
(Dia. (in ft.) shown is where FC value is half the FC at nadir.)  
Ft. Distance from fixture  
FC Footcandles at nadir (0°)  
Dia. Circle of light at 50% of FC

**Options Available**

**LED Power Supply**

-EI Remote emergency inverter for 100% rated lumen output. Run time: 90 minutes. 120 **or** 277V, 60Hz input only. Specify voltage.

**Color (CCT)**

-27K Color temperature 2700°K instead.  
-30K Color temperature 3000°K instead.  
-41K Color temperature 4100°K instead.

**Optics**

-NFL Narrow flood distribution. (0.4 SC)  
-SPT Spot distribution. (0.3 SC)  
-WFL Wide flood distribution. (1.0 SC)

**Trims**

-45 Gasket between trim flange and ceiling.



- Orders received by 10 AM (ET) ship by 5 PM within 72 hours
- Fixtures ship complete. Freight allowed: Over \$7000
- 50 luminaires (max.) per type on each purchase order (or consult RSM)

**SUBMITTAL DATA**

**APPROVAL STAMP**

JOB NAME

TYPE

WATTAGE

VOLTAGE

CATALOG NUMBER

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALL LED TO N.E.C. IN NORMAL USE. Manufacturer at his option will replace or repair each fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the discretion of manufacturer. Manufacturer is not liable for fire, explosion, or other damages, direct or indirect, sustained or suffered by the purchaser or any person. This warranty is supplied to the buyer, place of all other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend this specific warranty. Abnormal use, abuse of the fixture, improper installation, or repair, or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.