



SafeSite® LED RTO Area Light - UL844

for Indoor and Outdoor Industrial Applications



Features & Benefits

- 5 year full performance warranty
- L70 rated for >100,000 hours @ 25°C ambient
- Low T rating compared to traditional fixtures
- Resistant to shock and vibration
- Weather/corrosion resistant lamp
 assembly and housing
- Temperature compensation technology for longer life
- Factory sealed

Application

Dialight introduces the new stateof-the-art fixture SafeSite® LED Down light for hazardous location lighting. Whether your application is in a refinery, oil platform, chemical plant or any other hazardous area application, this fixture offers improved performance across the board. All of Dialight's long life LED luminaires are designed to meet the most demanding specification criteria while offering maximum energy savings and reduced maintenance.

Hazardous Locations Ratings

Fixed and portable fixtures for installation and use in hazardous (classified) locations Class I, Divisions 1 and 2, Groups A, B, C, and D; Class II, Division 1, Groups E, F, and G; Class II, Division 2, Groups F and G; and Class III, Divisions 1 and 2, in accordance with the National Electrical Code, NFPA 70

Classes

The classes define the general nature of hazardous material in the surrounding atmosphere.

Class	Hazardous Material in Surrounding Atmosphere								
Class I	Hazardous because flammable gases or vapors are present in the air in quantities sufficient to produce explosive or ignitable mixtures.								
Class II	Hazardous because combustible or conductive dusts are present.								
Class III	Hazardous because ignitable fibers or flying's are present, but not likely to be in suspension in sufficient quantities to produce ignitable mixtures. Typical wood chips, cotton, flax and nylon. Group classifications are not applied to this class.								

Divisions

The division defines the probability of hazardous material being present in an ignitable concentration in the surrounding atmosphere.

Division	Presence of Hazardous Material
Division 1	The substance referred to by class is present during normal conditions.
Division 2	The substance referred to by class is present only in abnormal conditions, such as a container failure or system breakdown.

Groups

The group defines the hazardous material in the surrounding atmosphere.

Group	Hazardous Material in Surrounding Atmosphere
Group A	Acetylene
Group B	Hydrogen, fuel and combustible process gases containing more than 30% hydrogen by volume or gases of equivalent hazard such as butadiene, ethylene, oxide, propylene oxide and acrolein.
Group C	Carbon monoxide, ether, hydrogen sulfide, morphline, cyclopropane, ethyl and ethylene or gases of equivalent hazard.
Group D	Gasoline, acetone, ammonia, benzene, butane, cyclopropane, ethanol, hexane, methanol, methane, vinyl chloride, natural gas, naph- tha, propane or gases of equivalent hazard.
Group E	Combustible metal dusts, including aluminum, magnesium and their commercial alloys or other combustible dusts whose particle size, abrasiveness and conductivity present similar hazards in connection with electrical equipment.
Group F	Carbonaceous dusts, carbon black, coal black, charcoal, coal or coke dusts that have more than 8% total entrapped volatiles or dusts that have been sesitized by other material so they present an explosion hazard.
Group G	Flour dust, grain dust, flour, starch, sugar, wood, plastic and chemicals.

Referenc

http://www.engineeringtoolbox.com/hazardous-areas-classification-d_347.html

SafeSite[®] LED RTO Area Light - UL844

Standard Models





Dimensions in inches [mm]

Temperature Ratings Ambient Temperature Range T3C Temperature Code -40°F to +133°F (-40°C to +55°C)

Certifications & Ratings

- Class I, Div 2 Groups A,B,C,D
- Class II, Div 1 Groups E,F,G
- Class II, Div 2 Groups E,F,G
- UL 844
- UL 1598

- UL 50/E
- CSA C22.2 #250
- CSA C22.2 #13
- IP66

Mechanical Informatio	n:
Fixture weight:	RTO0Wxx001: 2.5 lbs (1.13 kg) RTO0Wxx005: 3.2 lbs (1.45 kg) RTO0Wxx004: 0.8 lbs (0.36 Kg)
Shipping weight:	RTO0Wxx001: 3.0 lbs (1.36 kg) RTO0Wxx005: 4.5 lbs (2.04 kg) RTO0Wxx004: 1.4 lbs (0.64 Kg)
Mounting: Pendant Mount: Ceiling Mount: Pendant Mount:	1" & 3/4" NPT reducer bi-directional 3/4" NPT 5-way surfac 3/4" NPT threaded conduit
Electrical Specification	s:
Operating Voltage:	100-277 VAC, 50/60 Hz 12-48 VDC
Total system power consumption:	See table
Operating Temp:	-40°F to +133°F (-40°C to +55°C)
Harmonics:	IEC 61000-3-2
Noise requirement /EMC:	FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz
Transient protection:	1 kV line to line 2 kV line to ground
THD:	<20%
Power Factor:	> 0.9
Construction:	
Housing:	Copper free aluminum
Finish:	Superior dual coat finish - Sealed polyester topcoat - Chemical-resistant epoxy primer
Lens:	UV stabilized abrasion resistant polycarbonate
Photometric Informatio	n:
CRI:	75
ССТ:	6000K (cool white)
All values typical unless other	wise stated (tolerance +/- 10%)

WARNING - INSTALLATION & SECONDARY RETENTION. Use of any Dialight products without proper installation (including secondary retention / netting) and periodic inspections could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting (appropriate to the installation environment) where applicable. It is the exclusive responsibility of the contractor, installer and/or end-user to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is safely installed (with secondary retention / netting where appropriate) and in compliance with all applicable laws and regulations. To the extent permissible under applicable laws, Dialight disclaims all liability for personal injury and/or other damage resulting from any dislodgment or other dislocation of its products.

www.dialight.com

SafeSite[®] LED RTO Area Light Ordering Information & Mounting Accessories

Classifications: CID2 A,B,C,D • CIID1 E,F,G • CIID2 E,F,D

Part Number	Туре	CID2	CIID1	CIID2	Voltage	Lens	ССТ	Fixture Lumens	Watt	LPW	Beam Distribution
				Stand	ard Models - 10	00-277 VAC					
RTODW17005	Ceiling mount with junction box		•	•	100-277 VAC	Polycarbonate	6000K (cool white)	800	8	100	Circular
RTODW17004	Pendant mount		•	•	100-277 VAC	Polycarbonate	6000K (cool white)	800	8	100	Circular
RTODW17001	Pendant mount with junction box		•	•	100-277 VAC	Polycarbonate	6000K (cool white)	800	8	100	Circular
RTO2W17005	Ceiling mount with junction box	•			100-277 VAC	Polycarbonate	6000K (cool white)	800	8	100	Circular
RTO2W17004	Pendant mount	•			100-277 VAC	Polycarbonate	6000K (cool white)	800	8	100	Circular
RTO2W17001	Pendant mount with junction box	•			100-277 VAC	Polycarbonate	6000K (cool white)	800	8	100	Circular
RTODW07005	Ceiling mount with junction box		•	•	100-277 VAC	Polycarbonate	6000K (cool white)	470	8	59	Circular
RTODW07004	Pendant mount		•	•	100-277 VAC	Polycarbonate	6000K (cool white)	470	8	59	Circular
RTODW07001	Pendant mount with junction box		•	•	100-277 VAC	Polycarbonate	6000K (cool white)	470	8	59	Circular
RTO2W07005	Ceiling mount with junction box	•			100-277 VAC	Polycarbonate	6000K (cool white)	470	8	59	Circular
RTO2W07004	Pendant mount	•			100-277 VAC	Polycarbonate	6000K (cool white)	470	8	59	Circular
RTO2W07001	Pendant mount with junction box	•			100-277 VAC	Polycarbonate	6000K (cool white)	470	8	59	Circular
				Stan	dard Models - 1	12-48 VDC					
RTODW18005	Ceiling mount with junction box		•	•	12-48 VDC	Polycarbonate	6000K (cool white)	800	8	100	Circular
RTODW18004	Pendant mount		•	•	12-48 VDC	Polycarbonate	6000K (cool white)	800	8	100	Circular
RTODW18001	Pendant mount with junction box		•	•	12-48 VDC	Polycarbonate	6000K (cool white)	800	8	100	Circular
RTO2W18005	Ceiling mount with junction box	•			12-48 VDC	Polycarbonate	6000K (cool white)	800	8	100	Circular
RTO2W18004	Pendant mount	•			12-48 VDC	Polycarbonate	6000K (cool white)	800	8	100	Circular
RTO2W18001	Pendant mount with junction box	•			12-48 VDC	Polycarbonate	6000K (cool white)	800	8	100	Circular
RTODW08005	Ceiling mount with junction box		•	•	12-48 VDC	Polycarbonate	6000K (cool white)	470	8	59	Circular
RTODW08004	Pendant mount		•	•	12-48 VDC	Polycarbonate	6000K (cool white)	470	8	59	Circular
RTODW08001	Pendant mount with junction box		•	•	12-48 VDC	Polycarbonate	6000K (cool white)	470	8	59	Circular
RTO2W08005	Ceiling mount with junction box	•			12-48 VDC	Polycarbonate	6000K (cool white)	470	8	59	Circular
RTO2W08004	Pendant mount	•			12-48 VDC	Polycarbonate	6000K (cool white)	470	8	59	Circular
RTO2W08001	Pendant mount with junction box	•			12-48 VDC	Polycarbonate	6000K (cool white)	470	8	59	Circular

All values typical unless otherwise stated (tolerance +/- 10%).



DISCLAIMER. All product information provided is, to the best of Dialight's knowledge, accurate as of the date of publication. When ordering, refer to <u>www.dialight.com</u> for current versions of: (a) relevant product documentation (including the relevant product data sheets); (b) Dialight terms and conditions of sale; and, (c) the relevant product warranty. To the extent that any contract is deemed formed between Dialight and the purchaser of Dialight products and/or an end-user, versions of documents available at <u>www.dialight.com</u> as at the date of sale shall be the versions incorporated therein. In the event of any discrepancy between this document or information provided at <u>www.dialight.com</u>, the latter shall prevail.

www.dialight.com

North American HQ

info@dialight.com

EMEA Technical Centre

Tel: +45 8877 4545 (Denmark)

Houston

Middle East

Australia

info@dialight.com.au

Southeast Asia

Singapore 408868

Brazil

Indaiatuba - SP - 13347- 662 Fax: +55 (19) 3113-4300

WARNING / DISCLAIMERS:

WARNING / DISCLAIMERS: Installation & secondary retention. The use of this product without proper installation (including secondary retention / netting) and periodic inspections, could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting (appropriate to the installation environment) as applicable. Dialight products are intended for utimate purchase, installation and operation by knowledgeable persons trained in the functional assessment, installation, use and maintenance of such products and all customers (including but not limited to end customers) are responsible for assessing the suitability of Dialight products for any given installation requirement. It is the exclusive responsibility of the contractor, installer and/or end-user to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is safely installed (with secondary retention / netting as appropriate) and in compliance with all applicable laws and regulations. **Product specifications & warranties**. All product information provided is, to the best of Dialight's knowledge, accurate as of the date of publication. All values and performance data herein are design or typical values when measured under laboratory conditions. The information herein is subject to change without notice. The products / software detailed herein are subject to applicable warranties and accepts no liability for the installation and/or unauthorised use of its products. When ordering, refer to <u>www.dialight.com</u> for current versions of (a) relevant product documentation (including relevant product data sheets); (b) Dialight therms and conditions of sale; and, (c) the relevant product warranties. The extent that any contract is deemed formed forwer purchase in the relevant law; Dialight.com and information provided at <u>www.dialight.com</u>, the latter shall prevail. **Exclusion of liability**. To the extent permissibe under the relevant law, Dialight disclaims all liability fo