

D4

D4 indirect presents a uniform distribution along the surface of the wall or ceiling with negligible backsplash and minimal hot spots on the surface closest to the luminaire.

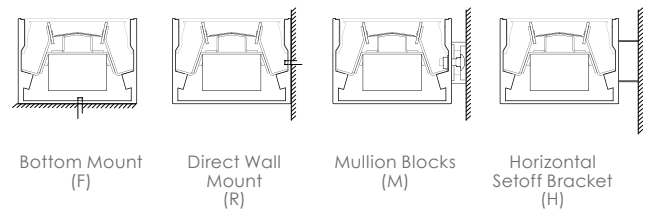


Performance

OUTPUT	INDIRECT OPTICS	DELIVERED		
		LUMEN OUTPUT	INPUT WATTS	EFFICACY
LVH (Very high)	Symmetric Narrow	1684 lm/ft	13 W/ft	69 lm/W
	Symmetric Wide	1495 lm/ft	18.5 W/ft	91 lm/W
	Asymmetric	1040 lm/ft	13 W/ft	80 lm/W

Based on static white 35K fixtures. The data shown represents the highest output configuration. For complete photometric data, refer to pages 2 and 3.

Dimensions



D4	LENGTH OR PATTERN TYPE		INTERSECTION TYPE	OUTPUT	LED CCT		CRI	VOLTAGE
D4	M_	Nominal Length ¹	IT "T" Intersection	LS Standard Output	27	2700k	80+ CRI	U 120-277V
	PL_	Exact Length ²	IX "X" Intersection	LH High Output	30	3000k	90+ CRI ¹	3 347V ¹
	PU_	"L" Shape ³	IY "Y" Intersection	LVH Very High Output ¹	35	3500k		
	PR_	"U" Shape ³		C_ Custom Output ²	40	4000k		
	CP	Rectangle/Square ³			DW	Dim-to-warm ¹		
		Custom Pattern ⁴			TW	Tunable White ^{1,2}		
					RW	RGBW (full color + 3000k White) ^{2,3}		

Indicate length of each section of pattern either nominal or exact.
¹Specify in feet to the nearest foot (i.e. 12)
²Specify in inches to the nearest 1/8 (i.e. 180, 125)
³Specify in inches to the nearest 1/8.
⁴Contact Design Assist

¹Available on "M" symmetric wide distribution only
²Contact Design Assist for available custom tuned output range

¹Standard CCT range is 27-50k. Contact design assist for custom range.
²Photometric data pending for Tunable White and RGBW.
³RGBW is UL pending and only available in DMX dimming. Contact Design Assist for white CCTs other than 3000k.

¹Not available with Tunable White or Dim-to-Warm LED CCT. Contact Design Assist to discuss RGBW possibilities.

¹Not available with LEDcode or EM.

INDIRECT DISTRIBUTION		INDIRECT OPTICS	MOUNTING	FINISH	DIMMING
M	Symmetric Wide ¹	D Rigid Diffuse Dust Cover	R Direct Wall Mount	W White	D Standard 0-10V dimming ¹
G	Symmetric Narrow		M_ Mullion Blocks ¹	B Black	D2 Phase dimming ²
N	Asymmetric		H_ Horizontal Setoff Bracket ²	T Titanium	D3 DMX 0.1% dim-to-dark
			F Bottom / Surface Mount	O_ Other ¹	D4 DALI dim-to-off
				CBD SFH	NAIR nLight@AIR (dim-to-off) ³
				SPN SDW	NWIR nLight@Wired (dim-to-off)
				SCY LME	
				SMN	

¹ Not recommended for wall mount

¹ Enter "1" for 1" depth. Enter "5" for 1/2" depth.
² Enter "1" for 1" depth. Enter "5" for 1/2" depth. Not available with wet location.

¹ Specify RAL# or other custom color.

¹ 1% dimming standard unless otherwise specified.
² Reference ERP-PH8 driver for compatible dimmers.
³ nLight AIR components completely integrated into fixture. Not available with 347V + LEDcode or EM. If 347V, only available in 0-10V.

EMERGENCY		OPTIONS	
EC	Circuited	M	Multi-Circuit ¹
E_	Battery ¹	R	Right Endcap Feed
		L	Left Endcap Feed
		K	Natatorium Application ²
		Q	Wet Location ³
		MRI	MRI

Not available for 347V. See technical data for more information. Not available on fixtures < 4' length.

¹ Indicate length of separate EM circuit. If unknown, a 4' circuit will be provided by default. For full-length EM fixtures, no need to indicate EC. 4' fixtures will have a separate 2' EM circuit section.
² Factory-installed emergency battery pack. Specify desired quantity of batteries.

¹ Submit multi-circuiting requirements
² Not available with horizontal setoff bracket. See guide and contact Design Assist. Special hardware is utilized for this rating.
³ Not available with horizontal setoff bracket. Wet location suitable in full coverage and/or mullion mounted applications (direct to sky not recommended); not suitable for extreme weather applications. Refer to Wet Location brochure and contact Design Assist for more information.



Need help?
 Don't see what you need?
 We know that having so many options can be overwhelming. Please reach out to our factory for any specific request or questions you have.

Our Design Assist team
 (designassist@alights.com)
 is here to make the process move smoothly.

Light distribution

DISTRIBUTION

Indirect Asymmetric
Indirect Asymmetric Narrow

OUTPUT (DC)

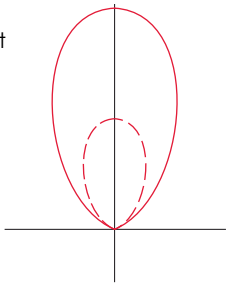
LVH: Very high output - 13 W/ft
LH: High output - 10.5 W/ft
LS: Standard output - 5 W/ft
C: Custom tuned output - Specify wattage

Photometric data

INDIRECT SYMMETRIC NARROW

LVH - 3500K - DUST COVER

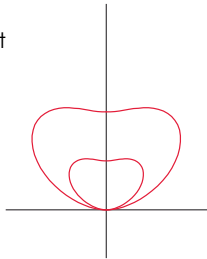
Lumens: 1495 lm/ft
Input watts: 13 W/ft
Efficacy: 69 lm/W



INDIRECT SYMMETRIC WIDE

LVH - 3500K - DUST COVER

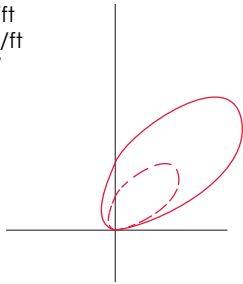
Lumens: 1684 lm/ft
Input watts: 18.5 W/ft
Efficacy: 91 lm/W



INDIRECT ASYMMETRIC

LVH - 3500K - DUST COVER

Lumens: 1040 lm/ft
Input watts: 13 W/ft
Efficacy: 80 lm/W



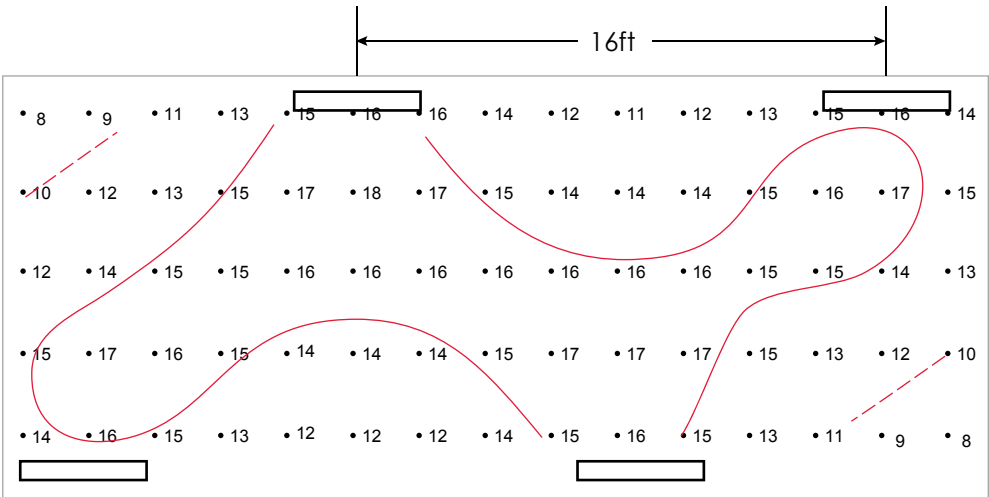
Sample installation - Corridor

ASYMMETRIC - LH / 4000K

Room height: 10 ft x 30 ft x 9 ft
Reflectance: 80% / 50% / 20%
Mounting height: 7 ft A.F.F.
Fixture length: 4 ft
Calculation grid: 2 ft x 2 ft
Calculation plane (horizontal): 2.5 ft A.F.F.
Average Illuminance: 14 fc
Uniformity: 1.8:1 (avg/min)

FRONT VIEW

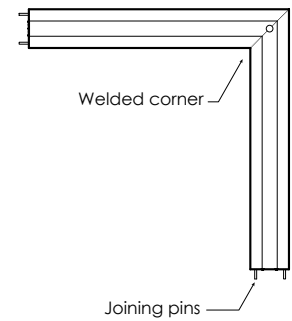
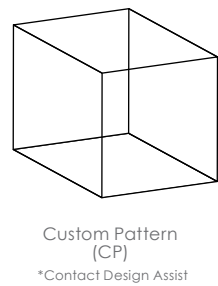
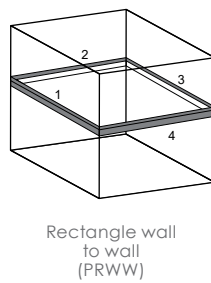
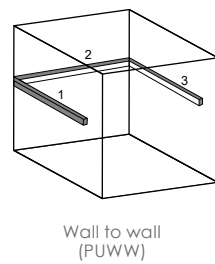
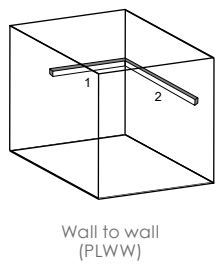
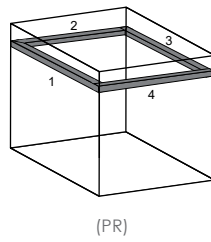
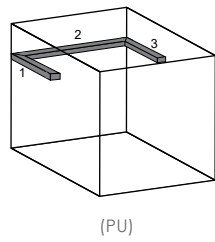
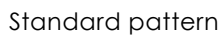
30 fc: ———
20 fc: - - - - -
10 fc: ·····



Light loss factors (LLF)

OUTPUT	CCT	LLF RATIO		INDIRECT EFFICACY					
				SYMMETRIC NARROW		SYMMETRIC WIDE		ASYMMETRIC	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000k	1.02	0.84	70 lm/W	58 lm/W	93 lm/W	76 lm/W	82 lm/W	67 lm/W
	3500k	1	0.83	69 lm/W	57 lm/W	91 lm/W	76 lm/W	80 lm/W	66 lm/W
	3000k	0.97	0.81	67 lm/W	56 lm/W	88 lm/W	74 lm/W	78 lm/W	65 lm/W
	2700k	0.94	0.79	65 lm/W	55 lm/W	86 lm/W	72 lm/W	75 lm/W	63 lm/W
LH (high)	4000k	1.02	0.84	71 lm/W	59 lm/W	98 lm/W	81 lm/W	87 lm/W	71 lm/W
	3500k	1	0.83	70 lm/W	58 lm/W	96 lm/W	80 lm/W	85 lm/W	71 lm/W
	3000k	0.97	0.81	68 lm/W	57 lm/W	93 lm/W	78 lm/W	82 lm/W	69 lm/W
	2700k	0.94	0.79	66 lm/W	55 lm/W	90 lm/W	76 lm/W	80 lm/W	67 lm/W
LS (standard)	4000k	1.02	0.84	78 lm/W	64 lm/W	108 lm/W	89 lm/W	99 lm/W	81 lm/W
	3500k	1	0.83	76 lm/W	63 lm/W	106 lm/W	88 lm/W	97 lm/W	81 lm/W
	3000k	0.97	0.81	74 lm/W	62 lm/W	103 lm/W	86 lm/W	94 lm/W	79 lm/W
	2700k	0.94	0.79	71 lm/W	60 lm/W	100 lm/W	84 lm/W	91 lm/W	77 lm/W

OUTPUT	CCT	LLF RATIO		INDIRECT LUMEN OUTPUT					
				SYMMETRIC NARROW		SYMMETRIC WIDE		ASYMMETRIC	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000k	1.02	0.84	1525 lm/ft	1256 lm/ft	1717 lm/ft	1414 lm/ft	1061 lm/ft	874 lm/ft
	3500k	1	0.83	1495 lm/ft	1241 lm/ft	1684 lm/ft	1397 lm/ft	1040 lm/ft	863 lm/ft
	3000k	0.97	0.81	1450 lm/ft	1211 lm/ft	1633 lm/ft	1364 lm/ft	1009 lm/ft	842 lm/ft
	2700k	0.94	0.79	1405 lm/ft	1181 lm/ft	1582 lm/ft	1330 lm/ft	978 lm/ft	822 lm/ft
LH (high)	4000k	1.02	0.84	1248 lm/ft	1028 lm/ft	1273 lm/ft	1048 lm/ft	867 lm/ft	714 lm/ft
	3500k	1	0.83	1224 lm/ft	1016 lm/ft	1248 lm/ft	1036 lm/ft	850 lm/ft	706 lm/ft
	3000k	0.97	0.81	1187 lm/ft	991 lm/ft	1211 lm/ft	1011 lm/ft	825 lm/ft	689 lm/ft
	2700k	0.94	0.79	1151 lm/ft	967 lm/ft	1173 lm/ft	986 lm/ft	799 lm/ft	672 lm/ft
LS (standard)	4000k	1.02	0.84	643 lm/ft	529 lm/ft	649 lm/ft	534 lm/ft	445 lm/ft	367 lm/ft
	3500k	1	0.83	630 lm/ft	523 lm/ft	636 lm/ft	528 lm/ft	437 lm/ft	362 lm/ft
	3000k	0.97	0.81	611 lm/ft	510 lm/ft	617 lm/ft	515 lm/ft	423 lm/ft	354 lm/ft
	2700k	0.94	0.79	592 lm/ft	498 lm/ft	598 lm/ft	502 lm/ft	410 lm/ft	345 lm/ft



LINEAR DIMENSIONS

Nominal or exact lengths to the nearest 1/8th of an inch available as individual fixtures or joined to create continuous row lengths, minimum fixture lengths is 12 feet. Patterns comprised of 90 degree precisely welded fully illuminated corners provide a multitude of geometric options and architectural transitions.

Custom - Contact [Design Assist](#) for modifications to product not detailed within this specification sheet.

OPTICS

A rigid partially diffuse extruded dust cover lens optimized for indirect LED performance delivers 92% transmittance.

LED LIGHT SOURCE

Custom manufactured linear board array uses high performance Nichia® LED in combination with a performance driven heat sink technology. Tested in accordance with LM79 and LM-80; L70>60,000hr; operated at reduced output for high efficacy and lumen maintenance. 2700K, 3000K, 3500K, and 4000K with 80+ CRI standard; other color temperatures and 90+ CRI available upon request, contact factory. LED color variation maintained at a 3-step MacAdam ellipse (SDCM 3x). LEDs are available in Standard, High and Very High outputs. Refer to photometry for delivered lumens.

LED DIMMING DRIVER

Factory tuned constant current electronic 0-10V control dimming driver is standard. Specification grade dimming down to 1%. Driver life of 50,000 hrs with ambient operating temperature range of -30°C to 50°C, maximum case temperature of 75°C. Electrical specifications at maximum driver load: PF >0.9, THD <20%, >85% Efficiency.

EMERGENCY

This luminaire is provided with a factory installed LED emergency lighting battery pack for both normal and emergency operation, 120-277v only. This fixture integrated unit contains long-life Ni- Cad recyclable battery, 24 hour charger, and converter circuit. Test switch and charge indicator provided. Test button to be remote located within 3 feet of the luminaire, by others in accordance with local code. Emergency mode provides constant power to a nominal 12W LED load for a period of 90 minutes, delivering 1200 lumens of unwavering illumination throughout the full 90 minute emergency duration. Unless otherwise specified, the emergency battery pack will illuminate one 2 foot end in the direct portion of the fixture.

Emergency circuiting provided as a separate circuit from normal power circuit according to NEC requirements, specify circuit length and location.

CONTROLS

nLight enabled, remote mounted controls provided by others. Please contact an Acuity controls representative for more information.

MOUNTING

Direct Wall mounting is ADA compliant. Fixture mounts directly to surface requiring field drilled mounting and power feed holes. Factory pre-drilled holes can be drilled and tapped for 1/2" chase nipple, submit dimension requirements when ordering.

Mullion Blocks are used to mount fixture to a horizontal or vertical window mullion and can also be used to offset fixture from wall. 1/2" or 1" deep milled aluminum blocks are available standard, 3/8" and 2" deep blocks also available upon request. (2) blocks provided for fixtures 8ft or less, fixtures larger than 8ft provided with (3) blocks every 12ft. Quantity of power feed and non power feed blocks provided as required. Fixture mounting requires field drilled mounting and power feed holes. Factory pre-drilled holes can be drilled and tapped for 1/2" chase nipple, submit dimension requirements when ordering.

Horizontal Set-off brackets are used to offset fixture from a wall by 1" or 1/2". Wall side bracket attaches to horizontal single gang box on wall. Outside horizontal box is factory-installed to fixture side. Fixture side box hinges over wall bracket and two brackets are fastened together with set screw to secure fixture to wall. (2) brackets per fixture up to 12', on center spacing varies depending on overall fixture length.

FINISH

Electrostatically applied powder coat finish. Standard finish options include titanium, white, and black. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

LISTING

UL/CUL rated for Damp Locations. Tested in accordance with UL 1598 and certified to CEC/CSA C22.1, NEC, ANSI/NFPA 70, and NOM-001-SEDE.

The D4 is assembled in the U.S.A. and complies with the Buy America(n) Act (BAA), Build American, Buy America (BABA), government procurement requirements under FAR, DFARS, and DOTS.

UL Wet location label available. Complies with UL definition of wet locations to prevent accumulation of water on live parts, electrical components, or conductor not identified for use in contact with water through the provision of weep holes. Neoprene gaskets provided at end caps to prevent ingress of liquids. For continuous fixture runs, wet location joiner blocks are provided. Waterproof connector to be provided by others. Installing contractor responsible for properly sealing and waterproofing all field drilled mounting and power feed locations.

WARRANTY

Please refer to the full terms and conditions on our website: www.alights.com/downloads/warranty/