



SQUARE ARCHITECTURAL RECESSED DOWNLIGHTS



Square Architectural Recessed Downlights

LiteFrame®

SQUARES

A complete offering for architectural designs

One of the most daunting design challenges is providing functional light in highly aesthetic, architectural spaces. When creating a striking ceiling appearance, why limit your lighting selections to round designs?

Prescolite has a complete offering of LED and CFL architectural squares to meet the needs of your next design project.

Interior designs often warrant the clean, architectural feel of straight lines. With Prescolite's square downlight offering, this design element doesn't have to be sacrificed at the ceiling.

Front of house areas, lobbies and conference rooms are highly visible spaces that require special attention. Position square downlights to supplement a room's aesthetics and form lines to "move" people throughout the area.



**Square downlighting for
visible, architectural spaces**

A COMPLETE LITEFRAME OFFERING

Prescolite's square downlights couple aesthetic, architectural design elements with the energy-saving CFL and LED benefits of our LiteFrame offering.

4" and 6" apertures

Wall wash option

Emergency capabilities

Lensed and open luminaire options

Reflector color options

1100 & 2000 lumen LED option



4" LED



6" LED WALL WASH



4" CFL



6" CFL

ALIGNMENT

Square downlights go above and beyond the needs of your project

Working with square downlights means working with straight lines. And lines that aren't straight and parallel can cause distractions and unwanted attention within interior settings.

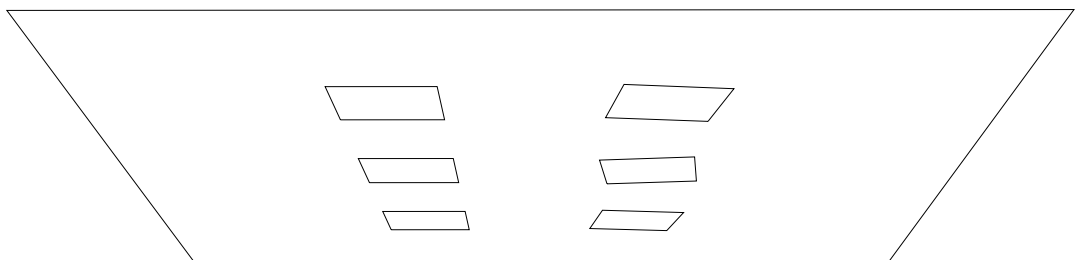
For a perfectly straight, symmetrical and parallel installation, the LiteFrame design offers up to 6° rotation adjustment. Additionally, the square downlights come with a distinct four-piece assembly for a seamless and aesthetic design - free of gaps.



GRILL ADJUSTMENT MECHANISM

NOTE ABOUT ILLUSTRATION

Alignment becomes very apparent when using squares and adjustment is critical





SQUARES

LiteFrame®

Square Architectural Recessed Downlights

OPTICAL CONTROL

Prescolite combines a parabolic upper reflector with a lower reflector for all architectural square downlights. The combination provides optical control and enhanced performance for both upper and lower halves - for superior lumen output with minimal source brightness.

The upper reflectors borrow concepts from our patented VirtualSource optics to provide excellent optical efficiencies, spacing and glare control, even in the corners.



TIGHT EDGES AND CORNERS

A square naturally has four corners. To guarantee straight alignment during installation, symmetry must be a top priority. Prescolite's unrivaled manufacturing control process produces a four-piece assembly that ensures tight edges and corners - to create an almost seamless square, enhance aesthetics and prevent unwanted distractions.

Additionally, the square downlights come with a distinct assembly for a clean and aesthetic design - free of unsightly gaps.



EASE OF INSTALLATION

Mechanical features in LiteFrame's square downlights allow for ease of installation and maintenance, including:

Light engine and trim assembly installed without tools above or below the ceiling

Pre-wired J-box with snap-on cover for easy access

6° Rotation adjustment to ensure perfect alignment after installation

Mechanical spring trim retention for both LED and CFL models



4" LED LF4SQLED CATALOG LOGIC
SPECIFICATION INFORMATION

EXAMPLE: LF4SQLED-4SQLED5 30K WHWT

HOUSING		TRIM				ACCESSORIES
LF4SQLED		4SQLED5	30K	WH	WT	
HOUSING MODEL LF4SQLED 4" High Efficacy LED Housing with 0-10V Dimming to 10%	VOLTAGE BLANK 120-277V	TRIM 4SQLED5³ 4" Open Reflector/ Light Engine Assembly, 1100 lumen module 4SQLED7⁴ 4" Open Reflector/ Light Engine Assembly, 2000 lumen module	LED COLOR TEMP 30K 3000 Kelvin, 80 CRI 35K 3500 Kelvin, 80 CRI 40K 4000 Kelvin, 80 CRI	REFLECTOR COLORS Blank Clear Alzak CG Champagne Gold Alzak BL Black Alzak WE Wheat Alzak LW Light Wheat Alzak PW Pewter Alzak WH¹ White Paint	REFLECTOR OPTIONS CL Regressed clear lens PL Regressed prismatic lens DL Regressed diffuse lens WT White Trim WW^{2,7} Wall Wash	ACCESSORIES B24 Set of two(2) 24" bar hangers for T-bar ceilings B6 Set of two (2) bar hangers for ceiling joist up to 24" centers LG1S⁵ Dual-Lite 100 VA Surface Mount LiteGear Emergency Lighting Inverter LG1R⁵ Dual-Lite 100 VA Recessed Mount LiteGear Emergency Lighting Inverter LG1T⁵ Dual-Lite 100 VA Recessed Ceiling T-Grid Mount LiteGear Emergency Lighting Inverter LG2S⁵ Dual-Lite 250 VA Surface Mount LiteGear Emergency Lighting Inverter
OPTIONS WW² Wall Wash EMR⁶ Emergency Battery Pack with remote test switch and indicator light WIH wiHUBB [®] Enabled			REFLECTOR FINISH Blank Alzak Semi-Diffuse			

¹ Requires WT option
² WW option must be on both the housing and the trim
³ Philips Fortimo 1100Lm LED module
⁴ Philips Fortimo 2000Lm LED module
⁵ See spec sheet or www.prescolite.com for LiteGear Compatibility Matrix
⁶ Damp location listed
⁷ Comes standard with diffuse lens

6" LED LF6SQLED CATALOG LOGIC
SPECIFICATION INFORMATION

EXAMPLE: LF6SQLED-6SQLED5 30K WHWT

HOUSING		TRIM				ACCESSORIES
LF6SQLED		6SQLED5	30K	WH	WT	
HOUSING MODEL LF6SQLED 6" High Efficacy LED Housing with 0-10V Dimming to 10%	VOLTAGE BLANK 120-277V	TRIM 6SQLED5³ 6" Open Reflector/ Light Engine Assembly, 1100 lumen module 6SQLED7⁴ 6" Open Reflector/ Light Engine Assembly, 2000 lumen module	LED COLOR TEMP 30K 3000 Kelvin, 80 CRI 35K 3500 Kelvin, 80 CRI 40K 4000 Kelvin, 80 CRI	REFLECTOR COLORS Blank Clear Alzak CG Champagne Gold Alzak BL Black Alzak WE Wheat Alzak LW Light Wheat Alzak PW Pewter Alzak WH¹ White Paint	REFLECTOR OPTIONS CL Regressed clear lens PL Regressed prismatic lens DL Regressed diffuse lens WT White Trim WW^{2,8} Wall Wash EM¹⁰ Emergency Back Up with Integral Switch	ACCESSORIES B24 Set of two(2) 24" bar hangers for T-bar ceilings B6 Set of two (2) bar hangers for ceiling joist up to 24" centers LG1S⁵ Dual-Lite 100 VA Surface Mount LiteGear Emergency Lighting Inverter LG1R⁵ Dual-Lite 100 VA Recessed Mount LiteGear Emergency Lighting Inverter LG1T⁵ Dual-Lite 100 VA Recessed Ceiling T-Grid Mount LiteGear Emergency Lighting Inverter LG2S⁵ Dual-Lite 250 VA Surface Mount LiteGear Emergency Lighting Inverter
OPTIONS WW² Wall Wash EMR⁶ Emergency Battery Pack with remote test switch and indicator light EM^{6,9,10} Emergency Back Up with Integral Switch WIH wiHUBB [®] Enabled			REFLECTOR FINISH Blank Alzak Semi-Diffuse			

¹ Requires WT option
² WW option must be on both the housing and the trim
³ Philips Fortimo 1100Lm LED module
⁴ Philips Fortimo 2000Lm LED module
⁵ See spec sheet or www.prescolite.com for LiteGear Compatibility Matrix
⁶ Damp location listed
⁸ Comes standard with diffuse lens
⁹ Not for use with wall wash or lensed trims. Use EM trims only.
¹⁰ EM option must be on both the housing and trim

EXAMPLE: LF4SQCFH132EB-4SQCFH1-LP26T30K

6" CFL LF6SQCFH1 CATALOG LOGIC SPECIFICATION INFORMATION

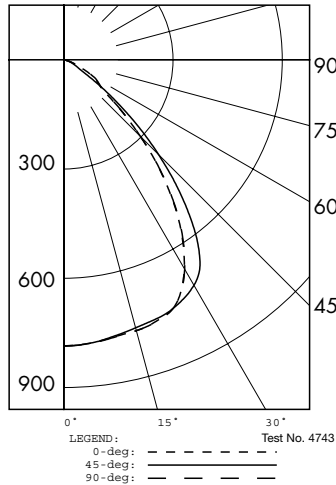
EXAMPLE: LF6SQCFH132EB-6SQCFH1-LP26T30K

HOUSING		TRIM		ACCESSORIES
LF6SQCFH132EB		6SQCFH1		LP32T30K
HOUSING MODEL		REFLECTORS	REFLECTOR COLORS	REFLECTOR OPTIONS
LF6SQCFH132EB ⁴ 6" (1) 26/32/42W Triple tube, multi-volt electronic ballast (120-277V)		6SQCFH1 6" Alzak semi-diffuse reflector	Blank Clear Alzak CG Champagne Gold Alzak WE Wheat Alzak LW Light Wheat Alzak PW Pewter Alzak	CL ² Regressed clear lens PL ² Regressed prismatic lens DL ² Regressed diffuse lens WT White flange (Alzak only) WW ^{6,7} Wall Wash
HOUSING OPTIONS		ACCESSORIES		
DM Electronic dimming ballast to 5%, 4-wire, 0-10V, (120V thru 277V) ECDM Lutron EcoSystem Dimming Ballast to 5% 3-wire line voltage (120V-277V). Specify wattage. XDM Advance Mark 10™ Dimming Ballast to 5%, 2-wire line voltage (specify voltage/wattage) HDM ⁵ Lutron Hi Lume Dimming Ballast to 1%, 3-wire (specify voltage/wattage) 7DM Advance Mark 7™ Dimming Ballast to 5%, 4-wire 0-10V 2DM ⁵ Lutron Tu-Wire® Dimming Ballast to 5%, 2-wire line voltage (120V only) MW26 Max Wattage Label. 26W		B24 Set of two(2) 24" bar hangers for T-bar ceilings B6 Set of two (2) bar hangers for ceiling joist up to 24" centers FSDFI Fuse kit for field installation LAMP ACCESSORIES LP ⁴ - wattage = 26, 32, 42 - type = T(Triple 4-pin) - temp = 27K, 30K, 35K, 41K (Kelvin)		
MW32 Max Wattage Label, 32W SYL Osram Sylvania® Ballast SMT Philips Advance SmartMate® ballast WW ⁶ Wall wash EM ^{1,8} Emergency battery pack with integral test switch and indicator light EMR ¹ Emergency battery pack with remote test switch and indicator light FSDFA Fuse Kit installed at factory RIF1 ¹ Radio interference filter (single circuit) WIH wiHUBB® Enabled		1 RIF1, and EMR options not offered in combination 2 Wet location listed 3 Dimming option not available for 347V 4 Sylvania or GE triple tube lamp only 5 Not for 42W 6 Wall wash must be selected on both the housing and the trim 7 Comes standard with diffuse lens 8 Not for use with wall wash or lens trims		

LF45QLED 45QLED735K
LED Light Engine: 3500K, 80 CRI
System Wattage: 30W
Fixture Delivered Lumens: 1424
Fixture Efficacy: 47.5
Spacing Criteria: 1.2

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%LUMINAIRE
0-30	630	44.2
0-40	1000	70.2
0-60	1364	95.8
0-90	1424	100.0
90-180	0	0
0-180	1424	100.0

LUMINANCE DATA IN CANDELA/SQ. METER			
Angle in Vertical	Average - 0°	Average - 45°	Average - 90°
45°	40675	50399	40949
55°	19923	18065	20429
65°	12603	7333	13061
75°	5238	4116	4864
85°	3333	2222	3333



CANDELA DISTRIBUTION			
DEG	0°	45°	90°
0	786	786	786
5	782	782	782
15	770	762	770
25	735	741	735
35	557	649	560
45	297	368	299
55	118	107	121
65	55	32	57
75	14	11	13
85	3	2	3
90	0	0	0

COEFFICIENTS OF UTILIZATION																	Zonal Cavity Method				
Room Cavity Ratio	% Effective Ceiling Cavity Reflectance																				
	80%				70%				50%				30%				10%				
	20% Effective Floor Cavity Reflectance																				
	% Wall Reflectance																				
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10				
1	112	108	105	103	109	106	104	101	102	100	98	97	95	95	93	93	92				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82				
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74				
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66				
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59				
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54				
7	74	63	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49				
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45				
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41				
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38				

LF45Q10 45QLED735K

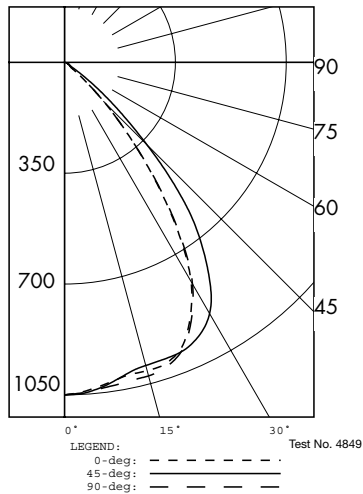
Test No. 4743

LF45QLED 45QLED735K Test No. 4743

LF65QLED 65QLED735K
LED Light Engine: 3500K, 80 CRI
System Wattage: 30W
Fixture Delivered Lumens: 1496
Fixture Efficacy: 49.9
Spacing Criteria: 1.2

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%LUMINAIRE
0-30	816	54.6
0-40	1238	82.8
0-60	1477	98.7
0-90	1496	100.0
90-180	0	0
0-180	1496	100.0

LUMINANCE DATA IN CANDELA/SQ. METER			
Angle in Vertical	Average - 0°	Average - 45°	Average - 90°
45°	13795	28520	13640
55°	2102	5541	2197
65°	1815	1945	1815
75°	847	1270	847
85°	629	629	629



CANDELA DISTRIBUTION			
DEG	0°	45°	90°
0	1050	1050	1050
5	1034	1040	1040
15	1008	991	1025
25	925	971	933
35	591	785	599
45	178	368	176
55	22	58	23
65	14	15	14
75	4	6	4
85	1	1	1
90	0	0	0

COEFFICIENTS OF UTILIZATION																	Zonal Cavity Method													
Room Cavity Ratio	% Effective Ceiling Cavity Reflectance																	20% Effective Floor Cavity Reflectance												
	80%				70%				50%				30%				10%				% Wall Reflectance									
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10									
	1	113	110	107	104	110	107	105	103	103	101	100	100	100	98	97	96	95	94	94	93	92								
	2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	85	84	83	82								
3	100	93	87	83	98	91	86	82	89	84	80	86	82	79	84	81	78	81	78	74	71									
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	78	74	71	68									
5	88	79	72	67	87	78	72	67	76	71	66	74	69	66	73	68	65	72	68	65	62									
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	68	63	60	57									
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	63	59	55	52									
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	60	55	51	48									
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	56	51	47	44									
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	52	47	44	41									
LF65QED 65QLED735K																	Test No. 4849													

LF65QLED 65QLED735K Test No. 4849

LF4SQCFH132EB 4SQCFH1

Lamp: 1-CF32DT/E/IN-SYLVANIA

Spacing Criteria: 0°: 1.0

90°: 1.1

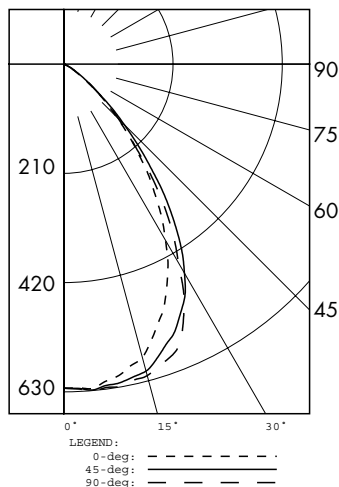
Efficiency: 36.0%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	468	54.2
0-40	683	79.1
0-60	850	98.4
0-90	864	100.0
90-180	0	0.0
0-180	864	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	Average 0°	Average 45°	Average 90°
45°	19584	22460	20406
55°	6922	7766	7935
65°	1604	2062	1375
75°	748	1122	748
85°	2222	1111	1111



Test No. 4738

CANDELA DISTRIBUTION

DEG	0°	45°	90°
0	623	623	623
5	626	629	631
15	584	611	620
25	469	530	544
35	306	370	340
45	143	164	149
55	41	46	47
65	7	9	6
75	2	3	2
85	2	1	1
90	0	0	0

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance																
	80%			70%			50%			30%			10%				
	20% Effective Floor Cavity Reflectance																
	% Wall Reflectance																
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	41	39	38	37	40	39	38	37	37	36	36	36	35	35	35	34	34
2	38	36	34	33	37	36	34	33	34	33	32	33	32	31	32	31	31
3	36	33	31	29	35	33	31	29	32	30	29	31	29	28	30	29	28
4	34	31	28	26	33	30	28	26	29	27	26	29	27	26	28	26	25
5	32	28	26	24	31	28	26	24	27	25	24	26	25	23	26	24	23
6	30	26	24	22	29	26	23	22	25	23	22	25	23	21	24	23	21
7	28	24	22	20	27	24	22	20	23	21	20	23	21	20	23	21	20
8	26	22	20	18	26	22	20	18	22	20	18	21	20	18	21	19	18
9	25	21	19	17	24	21	18	17	20	18	17	20	18	17	20	18	17
10	24	20	17	16	23	19	17	16	19	17	16	19	17	16	19	17	15

LF4SQCFH132EB 4SQCFH1

Test No. 4738

LF6SQCFH132EB 6SQCFH1

Lamp: 1-CF32DT/E/IN-SYLVANIA

Spacing Criteria: 0°: 1.1

90°: 1.2

Efficiency: 55.3%

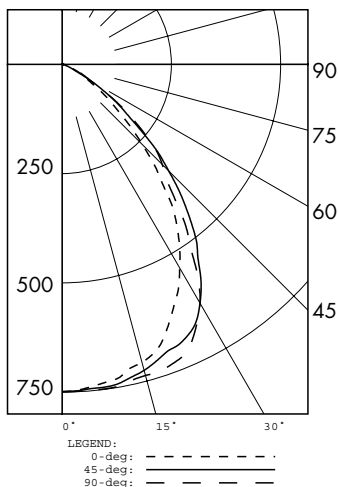
ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	582	43.9
0-40	904	68.2
0-60	1276	96.2
0-90	1326	100.0
90-180	0	0.0
0-180	1326	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	Average 0°	Average 45°	Average 90°
45°	15826	20999	19721
55°	8254	11406	11781
65°	4074	2953	4685
75°	1164	1330	1663
85°	0	494	494

Test No. 4737



Test No. 4737

CANDELA DISTRIBUTION

DEG	0°	45°	90°
0	749	749	749
5	741	745	749
15	706	725	737
25	607	683	701
35	460	542	513
45	260	345	324
55	110	152	157
65	40	29	46
75	7	8	10
85	0	1	1
90	0	0	0

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance																
	80%				70%				50%				30%			10%	
	20% Effective Floor Cavity Reflectance																
	% Wall Reflectance																
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	62	60	58	57	60	59	57	56	56	55	54	54	53	52	52	51	51
2	58	54	51	49	56	53	51	49	51	49	47	50	48	46	47	45	45
3	54	49	46	43	53	48	45	43	47	44	42	45	43	41	44	42	41
4	50	45	41	38	49	44	40	38	43	40	37	42	39	37	41	38	36
5	47	41	37	34	46	40	36	34	39	36	33	38	35	33	37	35	33
6	44	37	33	30	43	37	33	30	36	33	30	35	32	30	34	32	30
7	41	34	30	27	40	34	30	27	33	30	27	32	29	27	32	29	27
8	38	32	28	25	37	31	28	25	31	27	25	30	27	25	29	27	24
9	36	29	25	23	35	29	25	23	29	25	23	28	25	23	27	25	22
10	34	27	23	21	33	27	23	21	27	23	21	26	23	21	26	23	21

LF6SQCFH132EB 6SQCFH1

Test No. 4737

NOTES

Use of horizontally-lamped open downlights with amalgam-based CFL lamps in air-handling plenums is not recommended because cool air flow over the lamps will result in reduced light output. Prescolite recommends vertical lamp downlights or use of the regressed lensed trim option for horizontal downlights in these applications to reduce this effect. Refer to Prescolite White Paper WP0003 at www.prescolite.com for more information.

Refer to www.prescolite.com for additional photometric tests (IES Files).



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