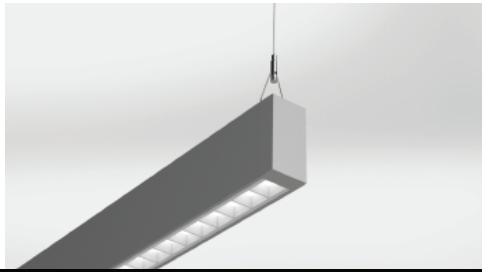


QuadraCel™ Suspended Series 2



Catalog Number	Type
Project Name	

QS2 - Indirect/ Direct with Baffle

2 1/4" x 4 1/2" Indirect/Direct Suspended Mount - with Baffle

S P E C I F I C A T I O N S

Housing

One-piece .070" thick extruded aluminum. Die-cast aluminum end caps are secured with no visible fasteners. Standard lengths are nominal 2', 3', 4', 6', 8' and 12'. Provisions may be made for patterns and continuous rows of any length.

Finish

Standard and premium finishes are baked powder coat electrostatically applied (2.0 mil minimum thickness) to assure aesthetics and durability.

Indirect Optical Controls

- (FDC) Frosted 100% polycarbonate dust cover - Standard Distribution
- (WSOP) Wide-Spread Optic/W.S. Dist. - Open Top
- (WSDC) Wide-Spread Optic/W.S. Distribution - Clear 100% polycarbonate dust cover

Direct Optical Controls

(PBXX) Snap-in baffle constructed of .030" thick aluminum with nominal 1.25" X 1.25" square cells, and includes a .040" thick acrylic overlay.

Standard Baffle Finishes:

- (PBMW) Matte White
- (PBFS) Full Specular - 'Mirro'
- (PBSS) Semi-Specular

Custom Baffle Finishes:

(PBCC) Custom Finish-Powder Coat (Contact Factory)

Reflector/Heat Sink

- Indirect - .040" thick die-formed aluminum finished with a high reflectance white enamel.
- Direct - .040" thick die-formed aluminum finished with a high reflectance white enamel.

Driver

Osram-Sylvania "Optotronic" power supply is UL/CUL recognized, 0-10V dimming available, 120-277 universal voltage. 347V is available. Contact factory for optional drivers.

Light Engine (Upper Aperture)

LED light source available for 3000K, 3500K, and 4000K CCT, in high and medium light outputs, and 80 or 90 CRI.

Light Engine (Lower Aperture)

Mid-power LED module with quad-emitter arrangement centered over each baffle cell providing optimum uniformity and performance. Available in 3000K, 3500K, and 4000K CCT, and 80 or 90 CRI.

Standard combined outputs (upper & lower) using 80 CRI and Matte White baffles:

- HO/HO** -High Output (Up/Dn) - Frosted Dust Cover
*6414 Total Del'd Lms. at 60 System Watts
 - HO/HO** -High Output (Up/Dn) - W.S. Optic/Open Top
*6675 Total Del'd Lms. at 60 System Watts
 - MO/MO** -Medium Output (Up/Dn) - Frosted Dust Cover
*4210 Total Del'd Lms. at 37 System Watts
 - MO/MO** -Medium Output (Up/Dn) - W.S. Optic/Open Top
*4383 Total Del'd Lms. at 37 System Watts
- (*All values per 4' using 4000K LED modules)

Wiring

All fixtures intended for continuous rows are provided with factory installed quick-connect wiring.

Circuitry

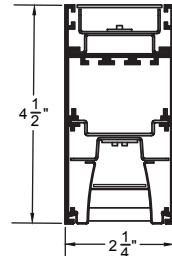
All fixtures are factory pre-wired for a single circuit. Provision for multiple switching/circuiting is optional.

Integral Controls

Contact factory for control by Occupancy Sensors, Photo Controls and Daylight Harvesting.

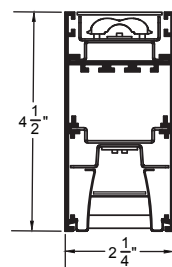
Certification

Fixtures are ETL listed for use in 'Dry or Damp Applications.' Conforms to UL Standard #1598 and to CAN/CSA Standard #C22.2No.250.0.



QS2-I/D-HO/HO-FDC/PBXX
QS2-I/D-MO/MO-FDC/PBXX

Shown w/optional Frosted Dust Cover



QS2-I/D-HO/HO-WSDC/PBXX
QS2-I/D-MO/MO-WSDC/PBXX

Shown w/optional W.S. Optic & Clear Dust Cover

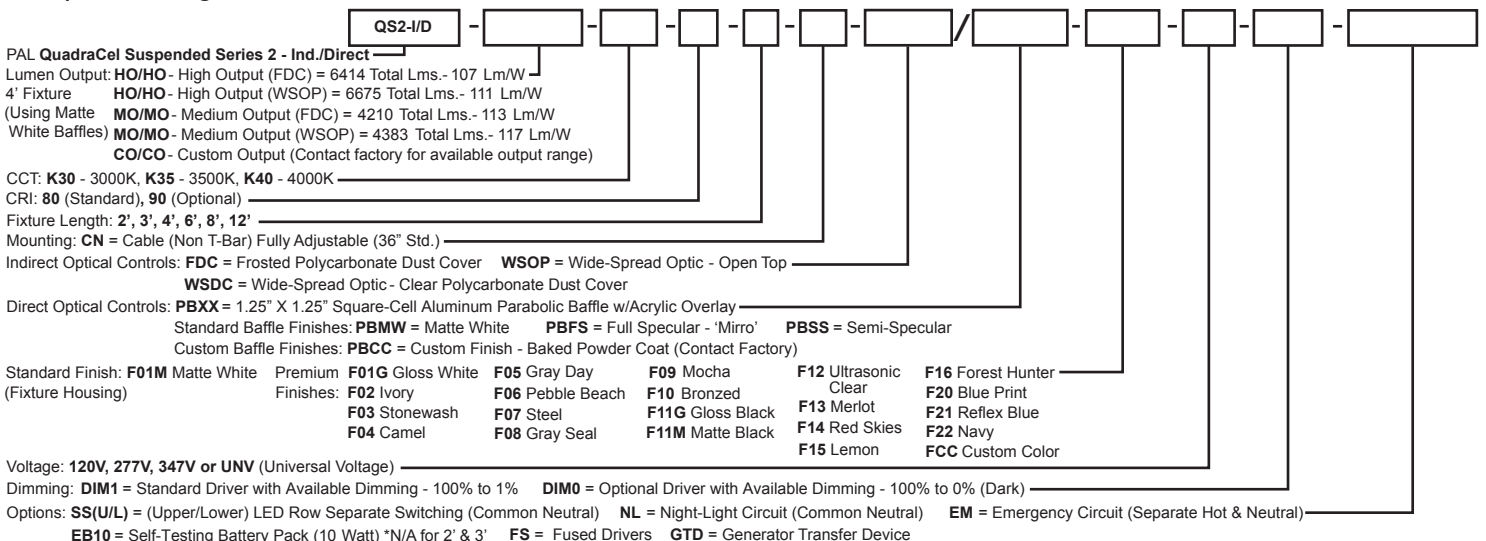
*Due to continued advancement in LED technology, lumen performance is subject to change. Please visit our website for the most up-to-date in formation.



W.S. - Wide-Spread Optic

The WS optic is a precisely designed, optical-grade acrylic LED-refraction system. Engineered for superior ceiling uniformity, it provides a more comfortable illuminated space while reducing energy requirements.

Sample Catalog Number: **QS2-I/D - HO/HO - K40 - 80 - 4 - CN - WSOP / PBMW - F01M - 120 - DIM1 - OPTIONS**



Suspended - Indirect/Direct

QS2-I/D-HO/HO-K40-FDC/PBMW



Indirect/Direct - High Output Up & Down

Frosted Dust Cover Up/Parabolic Baffle & Overlay Down

Catalog Number: QS2-I/D-HO/HO-K40-80-4'-X-FDC/PBMW-120

Report Number: #LLIA001418-003.ies

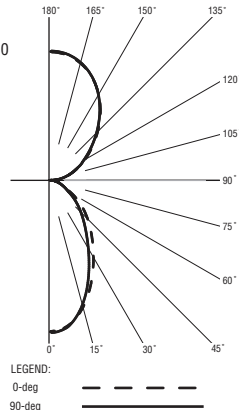
Luminaire Description: Extruded Aluminum Housing with White Alum. Reflectors, Frosted Dust Cover Up and Parabolic Baffle Down

LED Module: Multiple White Low-Power Light Emitting Diodes (LEDs) in a precise lay-out.

Total Luminaire Efficacy = 107.1 Lm/W

Color Rendering Index (CRI) = 83

58 % Up 42 % Down



LEGEND:
0-deg
90-deg

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0- 30	1169	18.2
0- 40	1682	26.2
0- 60	2408	37.5
0- 90	2712	42.3
90- 120	689	10.7
90- 130	1206	18.8
90- 150	2513	39.2
90- 180	3702	57.7
0- 180	6414	100.0

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1903	1903	1903	1903	1903
5	1866	1865	1868	1874	1880
25	1255	1232	1186	1145	1142
45	639	583	525	507	517
65	185	181	179	177	177
85	22	22	22	22	22
90	2	2	3	4	4
95	69	71	71	70	69
115	385	388	384	382	376
135	824	824	817	810	804
155	1331	1331	1330	1333	1331
175	1599	1598	1603	1611	1612
180	1616	1616	1616	1616	1616

QS2-I/D-MO/MO-K40-FDC/PBMW



Indirect/Direct - Medium Output Up & Down

Frosted Dust Cover Up/Parabolic Baffle & Overlay Down

Catalog Number: QS2-I/D-MO/MO-K40-80-4'-X-FDC/PBMW-120

Report Number: #LLIA001418-004.ies

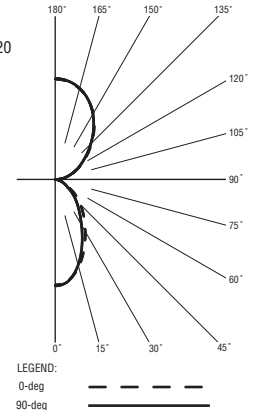
Luminaire Description: Extruded Aluminum Housing with White Alum. Reflectors, Frosted Dust Cover Up and Parabolic Baffle Down

LED Module: Multiple White Low-Power Light Emitting Diodes (LEDs) in a precise lay-out.

Total Luminaire Efficacy = 112.8 Lm/W

Color Rendering Index (CRI) = 83

60 % Up 40 % Down



LEGEND:
0-deg
90-deg

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0- 30	719	17.1
0- 40	1034	24.6
0- 60	1480	35.2
0- 90	1667	39.6
90- 120	473	11.2
90- 130	828	19.6
90- 150	1726	40.9
90- 180	2543	60.4
0- 180	4210	100.0

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1170	1170	1170	1170	1170
5	1147	1146	1149	1152	1155
25	771	757	729	706	702
45	393	358	323	312	318
65	114	111	110	109	109
85	14	13	13	13	13
90	1	2	2	2	3
95	47	48	48	47	47
115	265	266	264	263	258
135	567	566	561	556	552
155	916	914	914	915	914
175	1100	1099	1102	1108	1107
180	1111	1111	1111	1111	1111

QS2-I/D-HO/HO-K40-WSOP/PBMW



Indirect/Direct - High Output Up & Down

Wide-Spread Dist. -Open Up/Parabolic Baffle & Overlay Down

Catalog Number: QS2-I/D-HO/HO-K40-80-4'-X-WSOP/PBMW-120

Report Number: #LLIA001418-001.ies

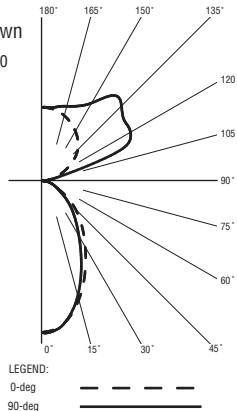
Luminaire Description: Extruded Aluminum Housing with White Alum. Reflectors, Acrylic W.S. Insert Up, and Parabolic Baffle Down

LED Module: Multiple White Low-Power Light Emitting Diodes (LEDs) in a precise lay-out.

Total Luminaire Efficacy = 111.4 Lm/W

Color Rendering Index (CRI) = 83

60 % Up 40 % Down



LEGEND:
0-deg
90-deg

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0- 30	1163	17.4
0- 40	1672	25.0
0- 60	2391	35.8
0- 90	2693	40.3
90- 120	1102	16.6
90- 130	1861	28.0
90- 150	3210	48.2
90- 180	3982	59.7
0- 180	6675	100.0

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1897	1897	1897	1897	1897
5	1860	1859	1862	1868	1868
25	1248	1225	1179	1141	1135
45	634	578	520	502	514
65	183	179	177	175	175
85	22	22	22	22	23
90	2	3	3	3	4
95	28	44	48	48	45
115	303	359	605	1123	1200
135	623	686	934	1287	1380
155	809	834	920	996	1032
175	912	911	912	918	919
180	919	919	919	919	919

QS2-I/D-MO/MO-K40-WSOP/PBMW



Indirect/Direct - Medium Output Up & Down

Wide-Spread Dist. -Open Up/Parabolic Baffle & Overlay Down

Catalog Number: QS2-I/D-MO/MO-K40-80-4'-X-WSOP/PBMW-120

Report Number: #LLIA001418-002.ies

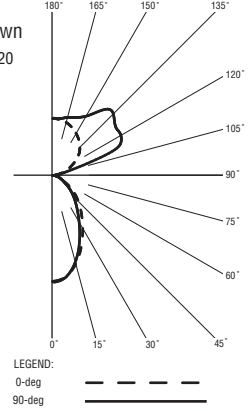
Luminaire Description: Extruded Aluminum Housing with White Alum. Reflectors, Acrylic W.S. Insert Up, and Parabolic Baffle Down

LED Module: Multiple White Low-Power Light Emitting Diodes (LEDs) in a precise lay-out.

Total Luminaire Efficacy = 117.4 Lm/W

Color Rendering Index (CRI) = 83

62 % Up 38 % Down



LEGEND:
0-deg
90-deg

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0- 30	719	16.4
0- 40	1033	23.6
0- 60	1480	33.8
0- 90	1668	38.1
90- 120	742	16.9
90- 130	1264	28.8
90- 150	2187	49.9
90- 180	2715	61.9
0- 180	4383	100.0

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1169	1169	1169	1169	1169
5	1147	1146	1148	1152	1154
25	770	756	730	707	702
45	392	358	323	312	318
65	114	111	110	109	109
85	14	13	14	14	14
90	1	1	2	2	2
95	19	29	33	32	29
115	207	247	423	770	823
135	422	468	642	883	946
155	552	570	628	683	706
175	623	622	624	629	627
180	627	627	627	627	627

For more information, visit our website at www.pal-lighting.com



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